

## SEQUENCE LISTING

&lt;110&gt; Harari, Daniel

&lt;120&gt; SPLICE VARIANTS OF ERB-B RECEPTOR LIGANDS, COMPOSITIONS AND USES THEREOF

&lt;130&gt; Harari-001

&lt;160&gt; 185

&lt;170&gt; PatentIn version 3.3

&lt;210&gt; 1

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe  
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro  
 20 25 30

Ser Arg Tyr Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys  
 35 40 45

Thr Glu Asn Val Pro Met Lys Val  
 50 55

&lt;210&gt; 2

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe  
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro  
 20 25 30

Ser Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys  
 35 40 45

Gln Asn Tyr Val Met Ala Ser Phe  
 50 55

&lt;210&gt; 3

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr  
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu  
 20 25 30

Ser Cys Lys Cys Pro Asn Gly Phe Phe Gly Gln Arg Cys Leu Glu Lys  
 35 40 45

Leu Pro Leu Arg Leu  
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<210> 4  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 4

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr  
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu  
 20 25 30

Ser Cys Lys Cys Pro Val Gly Tyr Thr Gly Asp Arg Cys Gln Gln Phe  
 35 40 45

Ala Met Val Asn Phe  
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<210> 5  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 5

Glu Arg Ser Glu His Phe Lys Pro Cys Arg Asp Lys Asp Leu Ala Tyr  
 1 5 10 15

Cys Leu Asn Asp Gly Glu Cys Phe Val Ile Glu Thr Leu Thr Gly Ser  
 20 25 30

His Lys His Cys Arg Cys Lys Glu Gly Tyr Gln Gly Val Arg Cys Asp  
 35 40 45

Gln Phe Leu Pro Lys Thr Asp  
 50 55

<210> 6  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 6

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe  
 1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro

20

25

30

Phe Cys Arg Cys Val Glu Asn Tyr Thr Gly Ala Arg Cys Glu Glu Val  
 35 40 45

Phe Leu Pro Gly Ser  
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<210> 7  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 7

Ser Val Arg Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr  
 1 5 10 15

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr  
 20 25 30

Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg  
 35 40 45

Asp Leu Lys Trp Trp  
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<210> 8  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 8

Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe  
 1 5 10 15

Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala  
 20 25 30

Cys Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp  
 35 40 45

Leu Leu Ala Val  
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<210> 9  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 9

Lys Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr  
 1 5 10 15

Cys Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser  
 20 25 30

Cys Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp  
 35 40 45

Leu Phe Tyr Leu  
 50

<210> 10  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 10

Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe Gln Asn Phe  
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr  
 20 25 30

Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly Glu Lys Ser  
 35 40 45

Met Lys Thr His  
 50

<210> 11  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 11

Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe  
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser  
 20 25 30

Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser  
 35 40 45

Leu Pro Val Glu  
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<210> 12  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 12

Val Ala Gln Val Ser Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr  
 1 5 10 15

Cys Leu His Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr  
 20 25 30

Cys Arg Cys Glu Val Gly Tyr Thr Gly Val Arg Cys Glu His Phe Phe  
 35 40 45

Leu Thr Val His  
 50

<210> 13  
 <211> 52  
 <212> PRT  
 <213> Mus musculus

<400> 13

Val Ala Leu Lys Phe Ser His Pro Cys Leu Glu Asp His Asn Ser Tyr  
 1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile  
 20 25 30

Cys Arg Cys Phe Thr Gly Tyr Thr Gly Gln Arg Cys Glu His Leu Thr  
 35 40 45

Leu Thr Ser Tyr  
 50

<210> 14  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 14

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe  
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro  
 20 25 30

Ser Arg Tyr Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys  
 35 40 45

Thr Glu Asn Val Pro Met Lys Val Gln  
 50 55

<210> 15  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 15

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe  
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro  
 20 25 30

Ser Arg Tyr Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys  
 35 40 45

Gln Asn Tyr Val Met Ala Ser Phe Tyr  
 50 55

<210> 16  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 16

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr  
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu  
 20 25 30

Ser Cys Lys Cys Pro Asn Gly Phe Phe Gly Gln Arg Cys Leu Glu Lys  
 35 40 45

Leu Pro Leu Arg Leu Tyr  
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<210> 17  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 17

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr  
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu  
 20 25 30

Ser Cys Lys Cys Pro Val Gly Tyr Thr Gly Asp Arg Cys Gln Gln Phe  
 35 40 45

Ala Met Val Asn Phe Tyr  
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<210> 18  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 18

Glu Arg Ser Glu His Phe Lys Pro Cys Arg Asp Lys Asp Leu Ala Tyr  
 1 5 10 15

Cys Leu Asn Asp Gly Glu Cys Phe Val Ile Glu Thr Leu Thr Gly Ser  
 20 25 30

His Lys His Cys Arg Cys Lys Glu Gly Tyr Gln Gly Val Arg Cys Asp

35

40

45

Gln Phe Leu Pro Lys Thr Asp  
50 55

<210> 19  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 19

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe  
1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro  
20 25 30

Phe Cys Arg Cys Val Glu Asn Tyr Thr Gly Ala Arg Cys Glu Glu Val  
35 40 45

Phe Leu Pro Gly Ser Ser  
50

<210> 20  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 20

Ser Val Arg Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr  
1 5 10 15

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr  
20 25 30

Ala Cys Asn Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg  
35 40 45

Asp Leu Lys Trp Trp Glu  
50

<210> 21  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 21

Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe  
1 5 10 15

Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala  
20 25 30

Cys Val Cys His Ser Gly Tyr Val Gly Ala Arg Cys Glu His Ala Asp  
35 40 45

Leu Leu Ala Val Val  
50

<210> 22  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 22

Lys Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr  
1 5 10 15

Cys Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser  
20 25 30

Cys Val Cys Asp Glu Gly Tyr Ile Gly Ala Arg Cys Glu Arg Val Asp  
35 40 45

Leu Phe Tyr Leu Arg  
50

<210> 23  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 23

Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe Gln Asn Phe  
1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr  
20 25 30

Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly Glu Lys Ser  
35 40 45

Met Lys Thr His Ser  
50

<210> 24  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 24

Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe  
1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser  
20 25 30

Cys Ile Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser  
35 40 45



Leu Pro Val Glu Asn  
50

<210> 25  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 25

Val Ala Gln Val Ser Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr  
1 5 10 15

Cys Leu His Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr  
20 25 30

Cys Arg Cys Glu Val Gly Tyr Thr Gly Val Arg Cys Glu His Phe Phe  
35 40 45

Leu Thr Val His Gln  
50

<210> 26  
<211> 53  
<212> PRT  
<213> Mus musculus

<400> 26

Val Ala Leu Lys Phe Ser His Pro Cys Leu Glu Asp His Asn Ser Tyr  
1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile  
20 25 30

Cys Arg Cys Phe Thr Gly Tyr Thr Gly Gln Arg Cys Glu His Leu Thr  
35 40 45

Leu Thr Ser Tyr Ala  
50

<210> 27  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 27

Cys Lys Leu Arg Lys Gly Asn Cys Ser Ser Thr Val Cys Gly Gln Asp  
1 5 10 15

Leu Gln Ser His Leu Cys Met Cys Ala Glu Gly Tyr Ala Leu Ser Arg  
20 25 30

Asp Arg Lys Tyr Cys  
35

<210> 28  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 28

Cys Ala Phe Trp Asn His Gly Cys Thr Leu Gly Cys Lys Asn Thr Pro  
 1 5 10 15

Gly Ser Tyr Tyr Cys Thr Cys Pro Val Gly Phe Val Leu Leu Pro Asp  
 20 25 30

Gly Lys Arg Cys  
 35

<210> 29  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 29

Cys Pro Arg Asn Val Ser Glu Cys Ser His Asp Cys Val Leu Thr Ser  
 1 5 10 15

Glu Gly Pro Leu Cys Phe Cys Pro Glu Gly Ser Val Leu Glu Arg Asp  
 20 25 30

Gly Lys Thr Cys  
 35

<210> 30  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 30

Cys Ser Ser Pro Asp Asn Gly Gly Cys Ser Gln Leu Cys Val Pro Leu  
 1 5 10 15

Ser Pro Val Ser Trp Glu Cys Asp Cys Phe Pro Gly Tyr Asp Leu Gln  
 20 25 30

Leu Asp Glu Lys Ser Cys  
 35

<210> 31  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 31

Cys Leu Tyr Gln Asn Gly Gly Cys Glu His Ile Cys Lys Lys Arg Leu  
 1 5 10 15

Gly Thr Ala Trp Cys Ser Cys Arg Glu Gly Phe Met Lys Ala Ser Asp  
 20 25 30

Gly Lys Thr Cys  
35

<210> 32  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 32

Cys Ala Pro Val Gly Cys Ser Met Tyr Ala Arg Cys Ile Ser Glu Gly  
1 5 10 15

Glu Asp Ala Thr Cys Gln Cys Leu Lys Gly Phe Ala Gly Asp Gly Lys  
20 25 30

Leu Cys

<210> 33  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 33

Cys Glu Met Gly Val Pro Val Cys Pro Pro Ala Ser Ser Lys Cys Ile  
1 5 10 15

Asn Thr Glu Gly Gly Tyr Val Cys Arg Cys Ser Glu Gly Tyr Gln Gly  
20 25 30

Asp Gly Ile His Cys  
35

<210> 34  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 34

Cys Gln Leu Gly Val His Ser Cys Gly Glu Asn Ala Ser Cys Thr Asn  
1 5 10 15

Thr Glu Gly Gly Tyr Thr Cys Met Cys Ala Gly Arg Leu Ser Glu Pro  
20 25 30

Gly Leu Ile Cys  
35

<210> 35  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 35

Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His Asp Gly Val Cys Met  
 1 5 10 15

Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn Cys Val Val Gly Tyr  
 20 25 30

Ile Gly Glu Arg Cys  
 35

<210> 36  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 36

Cys Ser Gln Pro Gly Glu Thr Cys Leu Asn Gly Gly Lys Cys Glu Ala  
 1 5 10 15

Ala Asn Gly Thr Glu Ala Cys Val Cys Gly Gly Ala Phe Val Gly Pro  
 20 25 30

Arg Cys

<210> 37  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 37

Cys Leu Ser Thr Pro Cys Lys Asn Ala Gly Thr Cys His Val Val Asp  
 1 5 10 15

Arg Arg Gly Val Ala Asp Tyr Ala Cys Ser Cys Ala Leu Gly Phe Ser  
 20 25 30

Gly Pro Leu Cys  
 35

<210> 38  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 38

Cys Leu Thr Asn Pro Cys Arg Asn Gly Gly Thr Cys Asp Leu Leu Thr  
 1 5 10 15

Leu Thr Glu Tyr Lys Cys Arg Cys Pro Pro Gly Trp Ser Gly Lys Ser  
 20 25 30

Cys

<210> 39

<211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 39

Cys Ala Ser Asn Pro Cys Ala Asn Gly Gly Gln Cys Leu Pro Phe Glu  
 1 5 10 15

Ala Ser Tyr Ile Cys His Cys Pro Pro Ser Phe His Gly Pro Thr Cys  
 20 25 30

<210> 40  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 40

Cys Gly Gln Lys Pro Arg Leu Cys Arg His Gly Gly Thr Cys His Asn  
 1 5 10 15

Glu val Gly Ser Tyr Arg Cys Val Cys Arg Ala Thr His Thr Gly Pro  
 20 25 30

Asn Cys

<210> 41  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 41

Cys Ser Pro Ser Pro Cys Gln Asn Gly Gly Thr Cys Arg Pro Thr Gly  
 1 5 10 15

Asp val Thr His Glu Cys Ala Cys Leu Pro Gly Phe Thr Gly Gln Asn  
 20 25 30

Cys

<210> 42  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 42

Cys Pro Gly Asn Asn Cys Lys Asn Gly Gly Ala Cys Val Asp Gly Val  
 1 5 10 15

Asn Thr Tyr Asn Cys Pro Cys Pro Pro Glu Trp Thr Gly Gln Tyr Cys  
 20 25 30

<210> 43  
 <211> 34  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 43

Cys Gln Leu Met Pro Asn Ala Cys Gln Asn Gly Gly Thr Cys His Asn  
 1 5 10 15

Thr His Gly Gly Tyr Asn Cys Val Cys Val Asn Gly Trp Thr Gly Glu  
 20 25 30

Asp Cys

&lt;210&gt; 44

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 44

Cys Ala Ser Ala Ala Cys Phe His Gly Ala Thr Cys His Asp Arg Val  
 1 5 10 15

Ala Ser Phe Tyr Cys Glu Cys Pro His Gly Arg Thr Gly Leu Leu Cys  
 20 25 30

&lt;210&gt; 45

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 45

Cys Ile Ser Asn Pro Cys Asn Glu Gly Ser Asn Cys Asp Thr Asn Pro  
 1 5 10 15

Val Asn Gly Lys Ala Ile Cys Thr Cys Pro Ser Gly Tyr Thr Gly Pro  
 20 25 30

Ala Cys

&lt;210&gt; 46

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 46

Cys Ser Leu Gly Ala Asn Pro Cys Glu His Ala Gly Lys Cys Ile Asn  
 1 5 10 15

Thr Leu Gly Ser Phe Glu Cys Gln Cys Leu Gln Gly Tyr Thr Gly Pro  
 20 25 30

Arg Cys

&lt;210&gt; 47

<211> 32  
 <212> PRT  
 <213> Mus musculus

<400> 47

Cys Val Ser Asn Pro Cys Gln Asn Asp Ala Thr Cys Leu Asp Gln Ile  
 1 5 10 15

Gly Glu Phe Gln Cys Met Cys Met Pro Gly Tyr Glu Gly Val His Cys  
 20 25 30

<210> 48  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 48

Cys Ala Ser Ser Pro Cys Leu His Asn Gly Arg Cys Leu Asp Lys Ile  
 1 5 10 15

Asn Glu Phe Gln Cys Glu Cys Pro Thr Gly Phe Thr Gly His Leu Cys  
 20 25 30

<210> 49  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 49

Cys Ala Ser Thr Pro Cys Lys Asn Gly Ala Lys Cys Leu Asp Gly Pro  
 1 5 10 15

Asn Thr Tyr Thr Cys Val Cys Thr Glu Gly Tyr Thr Gly Thr His Cys  
 20 25 30

<210> 50  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 50

Cys Asp Pro Asp Pro Cys His Tyr Gly Ser Cys Lys Asp Gly Val Ala  
 1 5 10 15

Thr Phe Thr Cys Leu Cys Arg Pro Gly Tyr Thr Gly His His Cys  
 20 25 30

<210> 51  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 51

Cys Ser Ser Gln Pro Cys Arg Leu Arg Gly Thr Cys Gln Asp Pro Asp  
 1 5 10 15

Asn Ala Tyr Leu Cys Phe Cys Leu Lys Gly Thr Thr Gly Pro Asn Cys  
 20 25 30

<210> 52  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 52

Cys Ala Ser Ser Pro Cys Asp Ser Gly Thr Cys Leu Asp Lys Ile Asp  
 1 5 10 15

Gly Tyr Glu Cys Ala Cys Glu Pro Gly Tyr Thr Gly Ser Met Cys  
 20 25 30

<210> 53  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 53

Cys Ala Gly Asn Pro Cys His Asn Gly Gly Thr Cys Glu Asp Gly Ile  
 1 5 10 15

Asn Gly Phe Thr Cys Arg Cys Pro Glu Gly Tyr His Asp Pro Thr Cys  
 20 25 30

<210> 54  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 54

Cys Asn Ser Asn Pro Cys Val His Gly Ala Cys Arg Asp Ser Leu Asn  
 1 5 10 15

Gly Tyr Lys Cys Asp Cys Asp Pro Gly Trp Ser Gly Thr Asn Cys  
 20 25 30

<210> 55  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 55

Cys Glu Ser Asn Pro Cys Val Asn Gly Gly Thr Cys Lys Asp Met Thr  
 1 5 10 15

Ser Gly Ile Val Cys Thr Cys Arg Glu Gly Phe Ser Gly Pro Asn Cys  
 20 25 30

<210> 56  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 56



Cys Ala Ser Asn Pro Cys Leu Asn Lys Gly Thr Cys Ile Asp Asp Val  
1 5 10 15

Ala Gly Tyr Lys Cys Asn Cys Leu Leu Pro Tyr Thr Gly Ala Thr Cys  
20 25 30

<210> 57  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 57

Cys Ala Pro Ser Pro Cys Arg Asn Gly Gly Glu Cys Arg Gln Ser Glu  
1 5 10 15

Asp Tyr Glu Ser Phe Ser Cys Val Cys Pro Thr Ala Gly Ala Lys Gly  
20 25 30

Gln Thr Cys  
35

<210> 58  
<211> 32  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (18)..(18)  
<223> X = undefined amino acid

<400> 58

Cys Val Leu Ser Pro Cys Arg His Gly Ala Ser Cys Gln Asn Thr His  
1 5 10 15

Gly Xaa Tyr Arg Cys His Cys Gln Ala Gly Tyr Ser Gly Arg Asn Cys  
20 25 30

<210> 59  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 59

Cys Arg Pro Asn Pro Cys His Asn Gly Gly Ser Cys Thr Asp Gly Ile  
1 5 10 15

Asn Thr Ala Phe Cys Asp Cys Leu Pro Gly Phe Arg Gly Thr Phe Cys  
20 25 30

<210> 60  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 60

Cys Ala Ser Asp Pro Cys Arg Asn Gly Ala Asn Cys Thr Asp Cys Val  
 1 5 10 15

Asp Ser Tyr Thr Cys Thr Cys Pro Ala Gly Phe Ser Gly Ile His Cys  
 20 25 30

<210> 61  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 61

Cys Thr Glu Ser Ser Cys Phe Asn Gly Gly Thr Cys Val Asp Gly Ile  
 1 5 10 15

Asn Ser Phe Thr Cys Leu Cys Pro Pro Gly Phe Thr Gly Ser Tyr Cys  
 20 25 30

<210> 62  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 62

Cys Asp Ser Arg Pro Cys Leu Leu Gly Gly Thr Cys Gln Asp Gly Arg  
 1 5 10 15

Gly Leu His Arg Cys Thr Cys Pro Gln Gly Tyr Thr Gly Pro Asn Cys  
 20 25 30

<210> 63  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 63

Cys Asp Ser Ser Pro Cys Lys Asn Gly Gly Lys Cys Trp Gln Thr His  
 1 5 10 15

Thr Gln Tyr Arg Cys Glu Cys Pro Ser Gly Trp Thr Gly Leu Tyr Cys  
 20 25 30

<210> 64  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 64

Cys Glu Val Ala Ala Gln Arg Gln Gly Val Asp Val Ala Arg Leu Cys  
 1 5 10 15

Gln His Gly Gly Leu Cys Val Asp Ala Gly Asn Thr His His Cys Arg  
 20 25 30

Cys Gln Ala Gly Tyr Thr Gly Ser Tyr Cys

35

40

<210> 65  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 65

Cys Ser Pro Ser Pro Cys Gln Asn Gly Ala Thr Cys Thr Asp Tyr Leu  
 1 5 10 15

Gly Gly Tyr Ser Cys Lys Cys Val Ala Gly Tyr His Gly Val Asn Cys  
 20 25 30

<210> 66  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 66

Cys Leu Ser His Pro Cys Gln Asn Gly Gly Thr Cys Leu Asp Leu Pro  
 1 5 10 15

Asn Thr Tyr Lys Cys Ser Cys Pro Arg Gly Thr Gln Gly Val His Cys  
 20 25 30

<210> 67  
 <211> 40  
 <212> PRT  
 <213> Mus musculus

<400> 67

Cys Asn Pro Pro Val Asp Pro Val Ser Arg Ser Pro Lys Cys Phe Asn  
 1 5 10 15

Asn Gly Thr Cys Val Asp Gln Val Gly Gly Tyr Ser Cys Thr Cys Pro  
 20 25 30

Pro Gly Phe Val Gly Glu Arg Cys  
 35 40

<210> 68  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 68

Cys Leu Ser Asn Pro Cys Asp Ala Arg Gly Thr Gln Asn Cys Val Gln  
 1 5 10 15

Arg Val Asn Asp Phe His Cys Glu Cys Arg Ala Gly His Thr Gly Arg  
 20 25 30

Arg Cys

<210> 69  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 69

Cys Lys Gly Lys Pro Cys Lys Asn Gly Gly Thr Cys Ala Val Ala Ser  
 1 5 10 15

Asn Thr Ala Arg Gly Phe Ile Cys Lys Cys Pro Ala Gly Phe Glu Gly  
 20 25 30

Ala Thr Cys  
 35

<210> 70  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 70

Cys Gly Ser Leu Arg Cys Leu Asn Gly Gly Thr Cys Ile Ser Gly Pro  
 1 5 10 15

Arg Ser Pro Thr Cys Leu Cys Leu Gly Pro Phe Thr Gly Pro Glu Cys  
 20 25 30

<210> 71  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 71

Cys Leu Gly Gly Asn Pro Cys Tyr Asn Gln Gly Thr Cys Glu Pro Thr  
 1 5 10 15

Ser Glu Ser Pro Phe Tyr Arg Cys Leu Cys Pro Ala Lys Phe Asn Gly  
 20 25 30

Leu Leu Cys  
 35

<210> 72  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 72

Cys Pro Asp Ser His Thr Gln Phe Cys Phe His Gly Thr Cys Arg Phe  
 1 5 10 15

Leu Val Gln Glu Asp Lys Pro Ala Cys Val Cys His Ser Gly Tyr Val  
 20 25 30

Gly Ala Arg Cys

35

<210> 73  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 73

Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe  
 1 5 10 15

Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro  
 20 25 30

Ser Arg Tyr Leu Cys Lys  
 35

<210> 74  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 74

Ser Trp Ser Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr  
 1 5 10 15

Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu  
 20 25 30

Ser Cys Lys  
 35

<210> 75  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 75

Glu Arg Ser Glu His Phe Lys Pro Cys Arg Asp Lys Asp Leu Ala Tyr  
 1 5 10 15

Cys Leu Asn Asp Gly Glu Cys Phe Val Ile Glu Thr Leu Thr Gly Ser  
 20 25 30

His Lys His Cys Arg  
 35

<210> 76  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 76

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe  
 1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro  
 20 25 30

Phe Cys Arg  
 35

<210> 77  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 77

Ser Val Arg Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr  
 1 5 10 15

Cys Leu His Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr  
 20 25 30

Ala Cys Lys  
 35

<210> 78  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 78

Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln Phe  
 1 5 10 15

Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro Ala  
 20 25 30

Cys Val

<210> 79  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 79

Lys Arg Lys Gly His Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr  
 1 5 10 15

Cys Ile Lys Gly Arg Cys Arg Phe Val Val Ala Glu Gln Thr Pro Ser  
 20 25 30

Cys Val

<210> 80  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 80

Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe Gln Asn Phe  
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr  
 20 25 30

Cys Lys

&lt;210&gt; 81

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 81

Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe  
 1 5 10 15

Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser  
 20 25 30

Cys Met

&lt;210&gt; 82

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 82

Val Ala Gln Val Ser Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr  
 1 5 10 15

Cys Leu His Gly Gln Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr  
 20 25 30

Cys Arg

&lt;210&gt; 83

&lt;211&gt; 34

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 83

Val Ala Leu Lys Phe Ser His Pro Cys Leu Glu Asp His Asn Ser Tyr  
 1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Lys Gln Ala Ile  
 20 25 30

Cys Arg

<210> 84  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 84

Ile Ala Leu Lys Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr  
 1 5 10 15

Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile  
 20 25 30

Cys Arg

<210> 85  
 <211> 360  
 <212> PRT  
 <213> Homo sapiens

<400> 85

Thr Ala Arg Gly Ala Gly Glu Glu Phe Pro Glu Thr Cys Trp Asn Ser  
 1 5 10 15

Gly Leu Ala Arg Arg Pro Gly Ala Glu Arg Arg Arg Leu Pro Asp Asp  
 20 25 30

Gly Ser Val Ser Arg Thr Val Ile Thr Ser Pro Arg Ser Gly Cys Glu  
 35 40 45

Gly Ala Gly Gln Arg Pro Gly Arg Glu Pro Pro Ala Ala Gly Pro Ile  
 50 55 60

Asp Asp Phe Pro Gly Arg Gln Glu Gln Pro Arg Glu Pro Gly Arg Ala  
 65 70 75 80

Pro Val Pro Gly Gly Arg Thr Ala Arg Arg Val Arg Ala Ala Leu Pro  
 85 90 95

Ala Gly Asn Gly Arg Arg Pro Arg Ala Ala Arg Ala Pro Gln Arg Gly  
 100 105 110

Arg Ser Leu Ser Pro Ser Arg Asp Lys Leu Phe Pro Asn Pro Ile Arg  
 115 120 125

Ala Leu Gly Pro Asn Ser Pro Ala Pro Arg Ala Val Arg Val Glu Arg  
 130 135 140

Ser Val Ser Gly Glu Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly  
 145 150 155 160

Lys Gly Lys Lys Lys Glu Arg Gly Ser Gly Lys Lys Pro Glu Ser Ala  
 165 170 175



Ala Gly Ser Gln Ser Pro Ala Leu Pro Pro Gln Leu Lys Glu Met Lys  
180 185 190

Ser Gln Glu Ser Ala Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr  
195 200 205

Ser Ser Glu Tyr Ser Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn  
210 215 220

Glu Leu Asn Arg Lys Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys  
225 230 235 240

Pro Gly Lys Ser Glu Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser  
245 250 255

Gly Glu Tyr Met Cys Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala  
260 265 270

Ser Ala Asn Ile Thr Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met  
275 280 285

Pro Ala Ser Thr Glu Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg  
290 295 300

Ile Ser Val Ser Thr Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr  
305 310 315 320

Ser Thr Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys  
325 330 335

Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser  
340 345 350

Asn Pro Ser Arg Tyr Leu Cys Lys  
355 360

<210> 86  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 86

Thr Ser Thr Ser Thr Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu  
1 5 10 15

Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys  
20 25 30

Asp Leu Ser Asn Pro Ser Arg Tyr Leu Cys Lys  
35 40

<210> 87

<211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 87

Thr Ser Thr Ser Thr Thr Gly Thr Ser His Leu Val Lys Cys Ala Glu  
 1 5 10 15

Lys Glu Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys  
 20 25 30

Asp Leu Ser Asn Pro Ser Arg Tyr Leu Cys Lys  
 35 40

<210> 88  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<400> 88

Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys Lys  
 1 5 10 15

Glu Arg Gly Ser Gly Lys Lys Pro Glu Ser Ala Ala Gly Ser Gln Ser  
 20 25 30

Pro Ala Leu Pro Pro Gln Leu Lys Glu Met Lys Ser Gln Glu Ser Ala  
 35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser  
 50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Lys  
 65 70 75 80

Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu  
 85 90 95

Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys  
 100 105 110

Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr  
 115 120 125

Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met Pro Ala Ser Thr Glu  
 130 135 140

Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr  
 145 150 155 160

Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr  
 165 170 175

Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn

180

185

190

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr  
 195 200 205

Leu Cys Lys  
 210

<210> 89  
 <211> 211  
 <212> PRT  
 <213> Homo sapiens

<400> 89

Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys  
 1 5 10 15

Glu Arg Gly Ser Gly Lys Lys Pro Glu Ser Ala Ala Gly Ser Gln Ser  
 20 25 30

Pro Ala Leu Pro Pro Gln Leu Lys Glu Met Lys Ser Gln Glu Ser Ala  
 35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser  
 50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Lys  
 65 70 75 80

Asn Lys Pro Gln Asn Ile Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu  
 85 90 95

Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys  
 100 105 110

Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr  
 115 120 125

Ile Val Glu Ser Asn Glu Ile Ile Thr Gly Met Pro Ala Ser Thr Glu  
 130 135 140

Gly Ala Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr  
 145 150 155 160

Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr  
 165 170 175

Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn  
 180 185 190

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr  
 195 200 205

Leu Cys Lys  
210

<210> 90  
<211> 211  
<212> PRT  
<213> Mus musculus

<400> 90

Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Gly Lys Lys Lys  
1 5 10 15

Asp Arg Gly Ser Arg Gly Lys Pro Ala Pro Ala Glu Gly Asp Pro Ser  
20 25 30

Pro Ala Leu Pro Pro Arg Leu Lys Glu Met Lys Ser Gln Glu Ser Ala  
35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser  
50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Arg  
65 70 75 80

Asn Lys Pro Gln Asn Val Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu  
85 90 95

Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys  
100 105 110

Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr  
115 120 125

Ile Val Glu Ser Asn Asp Leu Thr Thr Gly Met Ser Ala Ser Thr Glu  
130 135 140

Arg Pro Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr  
145 150 155 160

Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr  
165 170 175

Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn  
180 185 190

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr  
195 200 205

Leu Cys Lys  
210

<210> 91  
<211> 211  
<212> PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 91

Met Ser Glu Arg Lys Glu Gly Arg Gly Lys Gly Lys Lys Lys  
 1 5 10 15

Asp Arg Gly Ser Arg Gly Lys Pro Ala Pro Ala Glu Gly Asp Pro Ser  
 20 25 30

Pro Ala Leu Pro Pro Arg Leu Lys Glu Met Lys Ser Gln Glu Ser Ala  
 35 40 45

Ala Gly Ser Lys Leu Val Leu Arg Cys Glu Thr Ser Ser Glu Tyr Ser  
 50 55 60

Ser Leu Arg Phe Lys Trp Phe Lys Asn Gly Asn Glu Leu Asn Arg Arg  
 65 70 75 80

Asn Lys Pro Gln Asn Val Lys Ile Gln Lys Lys Pro Gly Lys Ser Glu  
 85 90 95

Leu Arg Ile Asn Lys Ala Ser Leu Ala Asp Ser Gly Glu Tyr Met Cys  
 100 105 110

Lys Val Ile Ser Lys Leu Gly Asn Asp Ser Ala Ser Ala Asn Ile Thr  
 115 120 125

Ile Val Glu Ser Asn Asp Leu Thr Thr Gly Met Ser Ala Ser Thr Glu  
 130 135 140

Arg Pro Tyr Val Ser Ser Glu Ser Pro Ile Arg Ile Ser Val Ser Thr  
 145 150 155 160

Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser Thr Ser Thr Thr Gly Thr  
 165 170 175

Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn  
 180 185 190

Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr  
 195 200 205

Leu Cys Lys  
 210

&lt;210&gt; 92

&lt;211&gt; 73

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 92

Met Ser Ala Ser Thr Glu Arg Pro Tyr Val Ser Ser Glu Ser Pro Ile  
 1 5 10 15

Arg Ile Ser Val Ser Thr Glu Gly Ala Asn Thr Ser Ser Ser Thr Ser  
20 25 30

Thr Ser Thr Thr Gly Thr Ser His Leu Ile Lys Cys Ala Glu Lys Glu  
35 40 45

Lys Thr Phe Cys Val Asn Gly Gly Glu Cys Phe Met Val Lys Asp Leu  
50 55 60

Ser Asn Pro Ser Arg Tyr Leu Cys Lys  
65 70

<210> 93  
<211> 137  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (113)..(113)  
<223> X = undefined amino acid

<400> 93

Thr Arg Pro Lys Leu Lys Lys Met Lys Ser Gln Thr Gly Gln Val Gly  
1 5 10 15

Glu Lys Gln Ser Leu Lys Cys Glu Ala Ala Ala Ile Asn Pro Gln Pro  
20 25 30

Ser Tyr Arg Trp Phe Lys Asp Gly Lys Glu Leu Asn Arg Ser Arg Asp  
35 40 45

Ile Arg Ile Lys Tyr Gly Asn Gly Arg Lys Asn Ser Arg Leu Gln Phe  
50 55 60

Asn Lys Val Lys Val Glu Asp Ala Gly Glu Tyr Val Cys Glu Ala Glu  
65 70 75 80

Asn Ile Leu Gly Lys Asp Thr Val Arg Gly Arg Leu Tyr Val Asn Ser  
85 90 95

Val Thr Thr Thr Leu Ser Ser Trp Ser Gly His Ala Gly Lys Cys Asn  
100 105 110

Xaa Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile  
115 120 125

Glu Gly Ile Asn Gln Leu Ser Cys Lys  
130 135

<210> 94  
<211> 73  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 94

Ser Ser Ser Ser Phe Asp Val Gly His Glu Gly Asp Asp Ser Trp Gly  
 1 5 10 15

Leu Gly Ile Val Ser Val Arg His Trp His Met Ser Leu Ile Pro Ser  
 20 25 30

Val Ser Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys Cys Asn  
 35 40 45

Glu Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr Tyr Ile  
 50 55 60

Glu Gly Ile Asn Gln Leu Ser Cys Lys  
 65 70

&lt;210&gt; 95

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 95

Glu Ile Asn Ile Ile Ile Trp Tyr Tyr Phe Pro Ser Ala Trp Arg Thr  
 1 5 10 15

Cys Phe Asn Ile Ser Ser Ser Val Gly Leu Leu Leu Thr Asn Ser Tyr  
 20 25 30

Lys Phe Tyr Thr Thr Thr Tyr Ser Thr Glu Arg Ser Glu His Phe Lys  
 35 40 45

Pro Cys Arg Asp Lys Asp Leu Ala Tyr Cys Leu Asn Asp Gly Glu Cys  
 50 55 60

Phe Val Ile Glu Thr Leu Thr Gly Ser His Lys His Cys Arg  
 65 70 75

&lt;210&gt; 96

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 96

Asn Tyr Leu Gln Ile Lys Met Pro Thr Asp His Glu Glu Pro Cys Gly  
 1 5 10 15

Pro Ser His Lys Ser Phe Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile  
 20 25 30

Pro Thr Ile Pro Ser Pro Phe Cys Arg Lys  
 35 40

&lt;210&gt; 97

<211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 97

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe  
 1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro  
 20 25 30

Phe Cys Arg Lys  
 35

<210> 98  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 98

Met Pro Thr Asp His Glu Glu Pro Cys Gly Pro Ser His Lys Ser Phe  
 1 5 10 15

Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro  
 20 25 30

Phe Cys Arg Lys  
 35

<210> 99  
 <211> 37  
 <212> PRT  
 <213> Mus musculus

<400> 99

Met Pro Thr Gly Asn Phe Leu Ser Arg Ala Ala Leu Trp Ser Gln Ala  
 1 5 10 15

Gln Val Ile Leu Pro Gln Trp Gly Asp Leu Leu Cys Asp Pro Tyr Tyr  
 20 25 30

Pro Gln Pro Ile Leu  
 35

<210> 100  
 <211> 37  
 <212> PRT  
 <213> Mus musculus

<400> 100

Met Pro Thr Gly Asn Phe Leu Ser Arg Ala Ala Leu Trp Ser Gln Ala  
 1 5 10 15

Gln Val Ile Leu Pro Gln Trp Gly Asp Leu Leu Cys Asp Pro Tyr Tyr  
 20 25 30



Pro Gln Pro Ile Leu  
35

<210> 101  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 101

Ser His Lys Ser Phe Cys Leu Asn Gly Gly Leu Cys Tyr Val Ile Pro  
1 5 10 15

Thr Ile Pro Ser Pro Phe Cys Arg Lys  
20 25

<210> 102  
<211> 30  
<212> PRT  
<213> Sus scrofa

<400> 102

Glu Pro Cys Gly Pro Ser His Arg Ser Phe Cys Leu Asn Gly Gly Ile  
1 5 10 15

Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro Phe Cys Arg Lys  
20 25 30

<210> 103  
<211> 30  
<212> PRT  
<213> Sus scrofa

<400> 103

Glu Pro Cys Gly Pro Ser His Arg Ser Phe Cys Leu Asn Gly Gly Ile  
1 5 10 15

Cys Tyr Val Ile Pro Thr Ile Pro Ser Pro Phe Cys Arg Lys  
20 25 30

<210> 104  
<211> 46  
<212> PRT  
<213> Mus musculus

<400> 104

Cys Leu Phe Ala Pro Ala Asp Ser Pro Val Ala Ala Ala Val Val Ser  
1 5 10 15

His Phe Asn Lys Cys Pro Asp Ser His Thr Gln Tyr Cys Phe His Gly  
20 25 30

Thr Cys Arg Phe Leu Val Gln Glu Glu Lys Pro Ala Cys Val  
35 40 45

<210> 105

<211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 105

Asp Leu Ser Pro Ala Ser Phe Leu Ser Pro Ala Asp Pro Pro Val Ala  
 1 5 10 15

Ala Ala Val Val Ser His Phe Asn Asp Cys Pro Asp Ser His Thr Gln  
 20 25 30

Phe Cys Phe His Gly Thr Cys Arg Phe Leu Val Gln Glu Asp Lys Pro  
 35 40 45

Ala Cys Val  
 50

<210> 106  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 106

Val Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser Ile Thr Lys  
 1 5 10 15

Cys Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln Cys Ile Tyr  
 20 25 30

Leu Val Asp Met Ser Gln Asn Tyr Cys Arg  
 35 40

<210> 107  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 107

Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser Ile Thr Lys Cys  
 1 5 10 15

Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln Cys Ile Tyr Leu  
 20 25 30

Val Asp Met Ser Gln Asn Tyr Cys  
 35 40

<210> 108  
 <211> 42  
 <212> PRT  
 <213> Mus musculus

<400> 108

Val Gln Met Glu Asp Asp Pro Arg Val Ala Gln Val Gln Ile Thr Lys  
 1 5 10 15

Cys Ser Ser Asp Met Asp Gly Tyr Cys Leu His Gly Gln Cys Ile Tyr  
 20 25 30

Leu Val Asp Met Arg Glu Lys Phe Cys Arg  
 35 40

<210> 109  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens  
 <400> 109

Met Thr Ala Gly Arg Arg Met Glu Met Leu Cys Ala Gly Arg Val Pro  
 1 5 10 15

Ala Leu Leu Leu Cys Leu Gly Phe His Leu Leu Gln Ala Val Leu Ser  
 20 25 30

Thr Thr Val Ile Pro Ser Cys Ile Pro Gly Glu Ser Ser Asp Asn Cys  
 35 40 45

Thr Ala Leu Val Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser  
 50 55 60

Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln  
 65 70 75 80

Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr Cys Arg  
 85 90

<210> 110  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens  
 <400> 110

Met Thr Ala Gly Arg Arg Met Glu Met Leu Cys Ala Gly Arg Val Pro  
 1 5 10 15

Ala Leu Leu Leu Cys Leu Gly Phe His Leu Leu Gln Ala Val Leu Ser  
 20 25 30

Thr Thr Val Ile Pro Ser Cys Ile Pro Gly Glu Ser Ser Asp Asn Cys  
 35 40 45

Thr Ala Leu Val Gln Thr Glu Asp Asn Pro Arg Val Ala Gln Val Ser  
 50 55 60

Ile Thr Lys Cys Ser Ser Asp Met Asn Gly Tyr Cys Leu His Gly Gln  
 65 70 75 80

Cys Ile Tyr Leu Val Asp Met Ser Gln Asn Tyr Cys Arg  
 85 90

<210> 111  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> X = undefined amino acid

<220>  
 <221> misc\_feature  
 <222> (118)..(118)  
 <223> X = undefined amino acid

<400> 111

Pro Gly Glu Lys Ala Thr Arg Pro Lys Leu Lys Lys Met Lys Ser Gln  
 1 5 10 15  
 Thr Gly Gln Val Gly Glu Lys Gln Ser Leu Lys Cys Glu Ala Ala Ala  
 20 25 30  
 Gly Asn Pro Gln Pro Ser Tyr Arg Trp Phe Lys Asp Gly Lys Glu Leu  
 35 40 45  
 Asn Arg Ser Arg Asp Ile Arg Ile Lys Tyr Gly Asn Gly Arg Lys Asn  
 50 55 60  
 Ser Arg Leu Gln Phe Asn Lys Val Lys Val Glu Asp Ala Gly Glu Tyr  
 65 70 75 80  
 Val Cys Glu Ala Glu Asn Ile Leu Gly Lys Asp Thr Val Gly Gly Arg  
 85 90 95  
 Leu Tyr Val Asn Ser Val Thr Thr Thr Leu Ser Ser Trp Ser Gly His  
 100 105 110  
 Ala Arg Lys Cys Asn Xaa Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly  
 115 120 125  
 Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys Ala Pro  
 130 135 140  
 Gly Leu His Cys Leu Glu Leu Gly Thr Gln Ser His His Phe Pro Ile  
 145 150 155 160  
 Ser Ala Ser Pro Gly Ser Ser Gln Gly Ser Trp Asn Gln Leu Pro Gln  
 165 170 175  
 His Pro Leu Ser  
 180

<210> 112  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> X = undefined amino acid

<400> 112

Glu Ala Glu Asn Ile Leu Gly Lys Asp Thr Val Arg Xaa Arg Leu Tyr  
 1 5 10 15

Val Asn Ser Val Ser Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg  
 20 25 30

Lys Cys Asn Glu Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys  
 35 40 45

Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys Ala His Gly Leu  
 50 55 60

His Cys Leu Glu Leu Gly Thr Gln Ser His His Phe Pro Ile Ser Ala  
 65 70 75 80

Ser Pro Gly Ser Ser Gln Gly Ser Trp Asn Gln Leu Pro Gln His Pro  
 85 90 95

Leu Ser Ala Leu Gly Gly Glu Gly Ser Pro Gly Gly Asp Ala Val Arg  
 100 105 110

Thr Pro Gly Pro Gln Ser Cys Ala  
 115 120

<210> 113  
 <211> 76  
 <212> PRT  
 <213> Mus musculus

<400> 113

Val Arg Gln Arg Arg Glu Thr Pro Ser Pro Pro Ile Ala Gly Ser Arg  
 1 5 10 15

Met Ala Arg Asn Ser Thr Gly Val Val Ile Phe Ala Ser Ser Met Ala  
 20 25 30

Met Ala Val Ser Thr Thr Leu Ser Ser Trp Ser Gly His Ala Arg Lys  
 35 40 45

Cys Asn Glu Thr Ala Lys Ser Tyr Cys Val Asn Gly Gly Val Cys Tyr  
 50 55 60

Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys Gly  
 65 70 75

<210> 114  
 <211> 167

<212> PRT  
 <213> Danio rerio

<400> 114

Lys Asp Cys Ala Ser Ala Pro Lys Val Lys Pro Met Asp Ser Gln Trp  
 1 5 10 15

Leu Gln Glu Gly Lys Lys Leu Thr Leu Lys Cys Glu Ala Val Gly Asn  
 20 25 30

Pro Ser Pro Ser Phe Asn Trp Tyr Lys Asp Gly Ser Gln Leu Arg Gln  
 35 40 45

Lys Lys Thr Val Lys Ile Lys Thr Asn Lys Lys Asn Ser Lys Leu His  
 50 55 60

Ile Ser Lys Val Arg Leu Glu Asp Ser Gly Asn Tyr Thr Cys Val Val  
 65 70 75 80

Glu Asn Ser Leu Gly Arg Glu Asn Ala Thr Ser Phe Val Ser Val Gln  
 85 90 95

Ser Ile Thr Thr Thr Leu Ser Pro Gly Ser Ser His Ala Arg Lys Cys  
 100 105 110

Asn Glu Thr Glu Lys Thr Tyr Cys Ile Asn Gly Gly Asp Cys Tyr Phe  
 115 120 125

Ile His Gly Ile Asn Gln Leu Ser Cys Lys Cys Pro Asn Asp Tyr Thr  
 130 135 140

Gly Glu Arg Cys Gln Thr Ser Val Met Ala Gly Phe Tyr Lys Ala Glu  
 145 150 155 160

Glu Leu Tyr Gln Asn Glu Cys  
 165

<210> 115  
 <211> 84  
 <212> PRT  
 <213> Gallus gallus

<400> 115

Ala Val Gln Ser Leu Glu Leu Leu Gln Gln Thr Trp Arg Leu Ser Thr  
 1 5 10 15

Leu Gln Phe Glu Tyr Asp Arg Arg Val Ala Cys Gly Phe His Tyr Thr  
 20 25 30

Thr Thr Tyr Ser Thr Glu Arg Ser Glu His Phe Lys Pro Cys Lys Asp  
 35 40 45

Lys Asp Leu Ala Tyr Cys Leu Asn Glu Gly Glu Cys Phe Val Ile Glu  
 50 55 60

Thr Leu Thr Gly Ser His Lys His Cys Arg Ser Asn Cys Pro Ser Gly  
65 70 75 80

Val Phe Cys Trp

<210> 116  
<211> 77  
<212> PRT  
<213> Gallus gallus

<400> 116

Met Arg Thr Asp His Glu Glu Leu Cys Gly Thr Ser Tyr Gly Ser Phe  
1 5 10 15

Cys Leu Asn Gly Gly Ile Cys Tyr Met Ile Pro Thr Val Pro Ser Pro  
20 25 30

Phe Cys Arg His Leu Pro Lys Ala Ala Asn Gln Ala Ser Ala Leu His  
35 40 45

Lys Ser Val Phe Ser Ile Phe Val Leu His Thr Asp Thr Thr Ala Leu  
50 55 60

Pro Ser Cys His Leu Met Pro Ala His Phe Tyr Thr Gln  
65 70 75

<210> 117  
<211> 65  
<212> PRT  
<213> Mus musculus

<400> 117

Met Pro Thr Asp His Glu Gln Pro Cys Gly Pro Arg His Arg Ser Phe  
1 5 10 15

Cys Leu Asn Gly Gly Ile Cys Ile Asp Pro Tyr Tyr Pro His Pro Phe  
20 25 30

Cys Arg Phe Tyr His Leu Phe Leu Arg His Cys Leu Leu Lys Pro Phe  
35 40 45

Val Gln Leu Gly Thr Leu Val Tyr Pro Val Phe Leu Lys Glu Leu Phe  
50 55 60

His  
65

<210> 118  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 118

Asp Val Ile Ala Gln His Lys Pro Glu Ser Glu Asn Thr Ser Asp Lys  
1 5 10 15

Pro Lys Arg Lys Lys Lys Gly Gly Lys Asn Gly Lys Asn Arg Arg Asn  
20 25 30

Arg Lys Lys Lys Asn Pro Cys Asp Ala Glu Phe Gln Asn Phe Cys Ile  
35 40 45

His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu Ala Val Thr Cys Asn  
50 55 60

Val Ser Arg Ile Phe Pro  
65 70

<210> 119  
<211> 112  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (2)..(2)  
<223> X = undefined amino acid

<400> 119

Leu Xaa Ala Thr Thr Gln Ser Lys Trp Lys Gly His Ser Ser Arg Cys  
1 5 10 15

Pro Lys Gln Tyr Lys His Tyr Cys Ile Lys Gly Arg Cys Arg Phe Val  
20 25 30

Val Ala Glu Gln Thr Pro Ser Cys Val Pro Leu Arg Lys Arg Arg Lys  
35 40 45

Arg Lys Lys Lys Glu Glu Glu Met Glu Thr Leu Gly Lys Asp Met Thr  
50 55 60

Pro Ile Asn Glu Asp Ile Glu Glu Thr Asn Ile Ala Tyr Lys Ala Met  
65 70 75 80

Lys Leu Pro Pro Gly Trp Trp Gln Ala Ala Lys Cys Leu Ala His Leu  
85 90 95

Lys Met Asp Arg Met Arg Leu Arg Lys Thr Ala Ser Arg His Glu Phe  
100 105 110

<210> 120  
<211> 119  
<212> PRT  
<213> Mus musculus

<400> 120

Lys Ser Leu Thr Trp Lys Ser Phe Asn Phe Leu Ser Leu Leu Pro



1 5 10 15  
 Leu Gly Ser Thr Gly Thr Arg Arg Ile Leu Cys Pro Leu Ser Thr Pro  
 20 25 30  
 Ser Cys Ser Ala Gly Leu Ala Ile Leu His Cys Val Val Ala Asp Gly  
 35 40 45  
 Asn Thr Thr Arg Thr Pro Glu Thr Asn Gly Ser Leu Cys Gly Ala Pro  
 50 55 60  
 Gly Glu Asn Cys Thr Gly Thr Thr Pro Arg Gln Lys Val Lys Thr His  
 65 70 75 80  
 Phe Ser Arg Cys Pro Lys Gln Tyr Lys His Tyr Cys Ile His Gly Arg  
 85 90 95  
 Cys Arg Phe Val Val Asp Glu Gln Thr Pro Ser Cys Met Ala Arg Leu  
 100 105 110  
 Ser Ile Tyr Leu Trp Arg Asn  
 115

<210> 121  
 <211> 141  
 <212> PRT  
 <213> Cercopithecus aethiops (African green monkey)  
 <400> 121

Met Lys Leu Leu Pro Ser Val Val Leu Lys Leu Leu Leu Ala Ala Val  
 1 5 10 15  
 Leu Ser Ala Leu Val Thr Gly Glu Ser Leu Glu Gln Leu Arg Arg Gly  
 20 25 30  
 Pro Ala Ala Gly Thr Ser Asn Pro Asp Pro Ser Thr Gly Ser Thr Asp  
 35 40 45  
 Gln Leu Leu Arg Leu Gly Gly Gly Arg Asp Arg Lys Val Arg Asp Leu  
 50 55 60  
 Gln Glu Ala Asp Leu Asp Leu Leu Arg Val Thr Leu Ser Ser Lys Pro  
 65 70 75 80  
 Gln Ala Leu Ala Thr Pro Ser Lys Glu Glu His Gly Lys Arg Lys Lys  
 85 90 95  
 Lys Gly Lys Gly Leu Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr  
 100 105 110  
 Lys Asp Phe Cys Ile His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg  
 115 120 125

Ala Pro Ser Cys Met Ala Ala Gly Gln Lys Asp Val Thr  
130 135 140

<210> 122  
<211> 79  
<212> PRT  
<213> Homo sapiens

<400> 122

Met Thr Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro Ile  
1 5 10 15

Thr Ala Gln Gln Ala Asp Asn Ile Glu Gly Pro Ile Ala Leu Lys Phe  
20 25 30

Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly Ala  
35 40 45

Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu Lys  
50 55 60

Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu  
65 70 75

<210> 123  
<211> 96  
<212> PRT  
<213> Homo sapiens

<400> 123

Gly Thr Arg Glu Ala Leu Cys Tyr Arg Cys Phe Cys Pro Leu Asn Thr  
1 5 10 15

Ala Met Arg Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro  
20 25 30

Ile Thr Ala Gln Gln Ala Asp Asn Ile Glu Gly Pro Ile Ala Leu Lys  
35 40 45

Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly  
50 55 60

Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu  
65 70 75 80

Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu  
85 90 95

<210> 124  
<211> 96  
<212> PRT  
<213> Homo sapiens

<400> 124

Gly Thr Arg Glu Ala Leu Cys Tyr Arg Cys Phe Cys Pro Leu Asn Thr

1 5 10 15

Ala Met Arg Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro  
20 25 30

Ile Thr Ala Gln Gln Ala Asp Asn Ile Glu Gly Pro Ile Ala Leu Lys  
35 40 45

Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly  
50 55 60

Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu  
65 70 75 80

Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu  
85 90 95

<210> 125  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 125

Leu Gln Glu Met Ala Leu Gly Val Pro Ile Ser Val Tyr Leu Leu Phe  
1 5 10 15

Asn Ala Met Thr Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro  
20 25 30

Pro Ile Thr Ala Gln Gln Ala Asp Asn Ile Glu Gly Pro Ile Ala Leu  
35 40 45

Lys Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn  
50 55 60

Gly Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys  
65 70 75 80

Leu Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro  
85 90 95

Leu

<210> 126  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 126

Lys Asp Lys Arg Lys Lys Val Lys Gln Leu Gln Glu Met Ala Leu Gly  
1 5 10 15

Val Pro Ile Ser Val Tyr Leu Leu Phe Asn Ala Met Thr Ala Leu Thr

20 25 30  
 Glu Glu Ala Ala Val Thr Val Thr Pro Pro Ile Thr Ala Gln Gln Gly  
 35 40 45  
 Asn Trp Thr Val Asn Lys Thr Glu Ala Asp Asn Ile Glu Gly Pro Ile  
 50 55 60  
 Ala Leu Lys Phe Ser His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys  
 65 70 75 80  
 Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Glu Lys Ala Ile Cys  
 85 90 95  
 Arg Cys Leu Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg  
 100 105 110  
 Arg Pro Leu  
 115

<210> 127  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<400> 127

Met Ala Leu Gly Val Pro Ile Ser Val Tyr Leu Leu Phe Asn Ala Met  
 1 5 10 15  
 Thr Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro Ile Thr  
 20 25 30  
 Ala Gln Gln Ala Asp Asn Ile Glu Gly Pro Ile Ala Leu Lys Phe Ser  
 35 40 45  
 His Leu Cys Leu Glu Asp His Asn Ser Tyr Cys Ile Asn Gly Ala Cys  
 50 55 60  
 Ala Phe His His Glu Leu Glu Lys Ala Ile Cys Arg Cys Leu Lys Leu  
 65 70 75 80  
 Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu  
 85 90

<210> 128  
 <211> 117  
 <212> DNA  
 <213> Homo sapiens

<400> 128  
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<210> 129

<211> 108  
 <212> DNA  
 <213> Homo sapiens

<400> 129  
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 ggcgtctgct actacatcga gggcatcaac cagctctcct gcaagtaa 108

<210> 130  
 <211> 114  
 <212> DNA  
 <213> Homo sapiens

<400> 130  
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 ggcgagtgtt ttgtgatcga aaccctgacc ggatcccata aacactgtcg gtaa 114

<210> 131  
 <211> 99  
 <212> DNA  
 <213> Homo sapiens

<400> 131  
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 tatgtgatac ctactattcc cagcccattt tgtaggtga 99

<210> 132  
 <211> 108  
 <212> DNA  
 <213> Homo sapiens

<400> 132  
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<210> 133  
 <211> 105  
 <212> DNA  
 <213> Homo sapiens

<400> 133  
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<210> 134  
 <211> 105  
 <212> DNA  
 <213> Homo sapiens

<400> 134  
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 agatgccgct tcgtggtggc cgagcagacg ccctcctgtg tgtaa 105

<210> 135  
 <211> 105  
 <212> DNA  
 <213> Homo sapiens

<400> 135  
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 gaatgcaaat atatagagca cctggaagca gtaacatgca agtaa 105

<210> 136  
 <211> 105  
 <212> DNA  
 <213> Homo sapiens

<400> 136  
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 gaatgcaaat atgtgaagga gctccgggct cctcctgca tgtaa 105

<210> 137  
 <211> 105  
 <212> DNA  
 <213> Homo sapiens

<400> 137  
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 cagtgcattt atctggtgga catgagtcaa aactactgca ggtaa 105

<210> 138  
 <211> 105  
 <212> DNA  
 <213> Mus musculus

<400> 138  
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 gcatgtgcat tccaccatga gctgaagcaa gccatttgca ggtaa 105

<210> 139  
 <211> 105  
 <212> DNA  
 <213> Homo sapiens

<400> 139  
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 gcttggtgcat tccaccatga gctagagaaa gccatttgca ggtaa 105

<210> 140  
 <211> 1651  
 <212> DNA  
 <213> Homo sapiens

<400> 140  
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 acctctcccc gatcggggtg cgagggcgcc gggcagaggc caggacgcga gccgccagcg 180  
 gcgggaccca tcgacgactt cccggggcga caggagcagc cccgagagcc agggcgagcg 240  
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cgcgtagagc gctccgtctc cggcgagatg tccgagcgca aagaaggcag aggcaaaggg 480  
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 aaactagtcc ttcggtgtga aaccagtctt gaatactcct ctctcagatt caagtggttc 660  
 aagaatggga atgaattgaa tcgaaaaaac aaaccacaaa atatcaagat acaaaaaaag 720  
 ccagggaagt cagaacttcg cattaacaaa gcatcactgg ctgattctgg agagtatatg 780  
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 taagaaaaga aatcctgtgt gtcgcttatg tctataactc cttgtttcag atgattctat 1140  
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 catccaatgt atgaattaag ctgtaagata atgttgcttt cttatcccag tgatcacctg 1500  
 ccaaataaat aagacaacaa agagaagcag aagggcaaga agattattta ctgacatata 1560  
 tctattacac ttgggattgt gcttactgtt gcataactat tttttaaacg gagtttagtt 1620  
 ttatattgct agtaaaaaaa aaaaaaaaaa a 1651

&lt;210&gt; 141

&lt;211&gt; 675

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 141

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 ctttctgtgt gaatggaggg gagtgttca tgggtgaaaga ctttcaaac ccctcgagat 120  
 acttggtgcaa gtaagaaaag aaatcctgtg tgtcgcttat gtctataact cttgtttca 180  
 gatgattcta tgtctcatga tgtattgttg ctttttttcc aattttgttg catcatgttg 240  
 aataatgctg ttttatatgt agagtgtttt aaaacattca caccattcgt catcactcct 300  
 ctgtcatatg cagaattgtt ttttgctctt ttcaatgtgt gtgagggtgtt tttgttttt 360  
 gttttgttt tttgccatgt tatttatagt gttgctttcc ttgtggtttt tcttgttgtt 420  
 attcagaaaa gatgtgcaga tatcacagag gcctataact tttggtatct acttctacat 480  
 ccaatgtatg aattaagctg taagataatg ttgctttctt atccrgtga tcacctgcca 540  
 aatgaataag acaacaaaga gaagcagaag ggcagaagat tatttactga catatatcta 600  
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ttgctagtaa aaaaa

675

<210> 142  
 <211> 675  
 <212> DNA  
 <213> Homo sapiens

<400> 142  
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 acttgtgcaa gtaagaaaag aaatcctgtg tgtcgcttat gtctataact ctttgtttca 180  
 gatgattcta tgtctcatga tgtattgttg ctttttttcc aattttgttg catcatgttg 240  
 aataatgctg ttttatatgt agagtgtttt aaaacattca caccattcgt catcactcct 300  
 ctgtcatatg cagaattggt ttttgctctt ttcaatgtgt gtgagggtgt ttttgttttt 360  
 gtttttgttt tttgccatgt tatttatagt gttgctttcc ttgtggtttt tcttgttgtt 420  
 attcagaaaa gatgtgcaga tatcacagag gcctataact tttggtatct acttctacat 480  
 ccaatgtatg aattaagctg taagataatg ttgctttctt atcccrgtga tcacctgcca 540  
 aatgaataag acaacaaaga gaagcagaag ggcagaagat tatttactga catatatcta 600  
 ttacacttgg gattgtctya ctgttgcata actatttttt aaacggagtt tagttttata 660  
 ttgctagtaa aaaaa 675

<210> 143  
 <211> 1651  
 <212> DNA  
 <213> Homo sapiens

<400> 143  
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 acctctcccc gatcggggtg cgagggcgcc gggcagaggc caggacgcga gccgccagcg 180  
 gcgggaccca tcgacgactt cccggggcga caggagcagc cccgagagcc agggcgagcg 240  
 cccgttccag gtggccggac cgcccgcgc gtccgcgcgg cgctccctgc aggcaacggg 300  
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 aaacttttcc caaacccgat ccgagccctt ggaccaaact cgcttgcgcc gagagccgtc 420  
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 aaactagtcc ttcggtgtga aaccagttct gaatactcct ctctcagatt caagtggttc 660  
 aagaatggga atgaattgaa tcgaaaaaac aaaccacaaa atatcaagat acaaaaaaag 720  
 ccagggaagt cagaacttcg cattaacaaa gcatcactgg ctgattctgg agagtatatg 780  
 tgcaaagtga tcagcaaatt aggaaatgac agtgcctctg ccaatatcac catcgtggaa 840  
 tcaaacgaga tcatcactgg tatgccagcc tcaactgaag gagcatatgt gtcttcagag 900



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tctcccatta gaatatcagt atccacagaa ggagcaaata cttcttcac tacatctaca      960
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aatggagggg agtgcttcat ggtgaaagac ctttcaaacc cctcgagata cttgtgcaag    1080
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ccaaatgaat aagacaacaa agagaagcag aagggaaga agattattta ctgacatata    1560
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ttatattgct agtaaaaaaa aaaaaaaaaa a                                1651

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<210> 144
<211> 1651
<212> DNA
<213> Homo sapiens

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acctctcccc gatcgggttg cgagggcgcc gggcagaggc caggacgcga gccgccagcg    180
gcgggaccca tcgacgactt cccggggcga caggagcagc cccgagagcc agggcgagcg    240
cccgttccag gtggccggac cgcccgcgcg gtccgcgcgg cgctccctgc aggcaacggg    300
agacgcccc gcgcagcgcg agcgctcag cgcgccgct cgctctcccc atcgagggac    360
aaacttttcc caaacccgat ccgagccctt ggaccaaact cgcctgcgcc gagagccgtc    420
cgcgtagagc gctccgtctc cggcgagatg tccgagcgca aagaaggcag aggcaaaggg    480
aagggaaga agaaggagcg aggtccggc aagaagccgg agtccgcggc gggcagccag    540
agcccagcct tgcctcccca attgaaagag atgaaaagcc aggaatcggc tgcaggttcc    600
aaactagtcc ttcggtgtga aaccagttct gaatactcct ctctcagatt caagtggttc    660
aagaatggga atgaattgaa tcgaaaaaac aaaccacaaa atatcaagat acaaaaaaag    720
ccagggaagt cagaacttcg cattaacaaa gcatcactgg ctgattctgg agagtatatg    780
tgcaaagtga tcagcaaatt aggaaatgac agtgccctcg ccaatatcac catcgtggaa    840
tcaaacgaga tcatcactgg tatgccagcc tcaactgaag gagcatatgt gtcttcagag    900
tctccatta gaatatcagt atccacagaa ggagcaaata cttcttcac tacatctaca     960
tccaccactg ggacaagcca tcttgtaaaa tgtgcgagaga aggagaaaac tttctgtgtg   1020
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ccaaatgaat aagacaacaa agagaagcag aagggcaaga agattattta ctgacatata 1560
tctattacac ttgggattgt gcttactgtt gcataactat tttttaaacg gagtttagtt 1620
ttatattgct agtaaaaaaa aaaaaaaaaa a 1651

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<210> 145
<211> 1590
<212> DNA
<213> Mus musculus

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<400> 145
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cagccaccgg agcgaggcca ctccagagcc ggcagcggca ggacccggga cacaagagta 180
gccccgagac acccccagac gttagcggcg ctccaggtga tcgagtccac gccgctccct 240
gcaggcgaca ggcgacgccc ccgcgcagcc cggccactgg ctcttccctc ccgggacaaa 300
cttttctgca agcccttgga ccaaacttgt cgcgcgctac cgtcgcccag ccgggtccgc 360
gtagagcgct catcttttagc gagatgtctg agcgcaaaga aggagaggc aaggggaagg 420
gcaagaagaa ggaccgggga tcccgcggga agcccgcgcc cgccgaaggc gacccgagcc 480
cagcattgcc tcccagattg aaagagatga aaagccagga gtcagctgca ggctccaagc 540
tcgtgcttcg gtgtgaaacc agctctgagt actcctcact cagattcaaa tggttcaaga 600
acggggaatga gctgaaccgt aggaataaac cacaaaacgt caagatacag aagaagccag 660
ggaagtcaga gcttcgaatc aacaaagcgt ccctggctga ctctggagaa tatatgtgca 720
aagtgatcag caagtttaga aacgacagt cctctgccaa catcaccatt gttgagtcaa 780
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ccattagaat atcagtttca acagaaggcg caaatacttc ttcattcaca tctacatcca 900
cgactgggac cagccatctc ataaagtgtg cggagaagga gaaaactttc tgtgtgaatg 960
gaggcgagtg cttcatggtg aaggacctgt caaacccctc aagatacttg tgcaagtaag 1020
aaatgaattc ctctctgtgc ctcgtacctg taacagctta tcccagattg ttctgtgtcg 1080
ccatgaaccc ctggcttttt tttccttact ttgttacatc ttgttttaaa taattctcat 1140
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gaattgattt tacttttcaa ggttttaggg tgtttttggt tcttgatggg ttgagtattt 1260
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tttttgcctt catatatata attttgcttt cctcctggtg ttccttaata gctactgaaa 1380  
 gaagtgtgca aatattgtag aaagctgtca ctttgaatcc ctactttttt atcccatgta 1440  
 ttaattgagc cataaggtac ataaggtaac ttttttttaa cctcagtgct tacctgcaag 1500  
 gtgaacagga caaatagagg ttgcaagaga gcagaaagtt acctgctaaa gcattttctta 1560  
 tgctctggat tatggtattg ccccataatt 1590

<210> 146  
 <211> 1630  
 <212> DNA  
 <213> Mus musculus

<400> 146  
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 cagccaccgg agcgaggcca ctccagagcc ggcagcggca ggaccggga cacaagagta 180  
 gccccgagac acccccagac gtagcgggcg ctccaggtga tcgagtccac gccgctccct 240  
 gcaggcgaca ggcgacgccc ccgcgcagcc cggccactgg ctcttccctc ccgggacaaa 300  
 cttttctgca agcccttggga ccaaacttgt cgcgcgtcac cgctcgcccag ccgggtccgc 360  
 gtagagcgct catctttagc gagatgtctg agcgcaaaga aggcagaggc aaggggaagg 420  
 gcaagaagaa ggaccgggga tcccgcggga agcccgcgcc cgccgaaggc gaccgagcc 480  
 cagcattgcc tccagattg aaagagatga aaagccagga gtcagctgca ggctccaagc 540  
 tcgtgcttcg gtgtgaaacc agctctgagt actcctcact cagattcaaa tgggtcaaga 600  
 acgggaatga gctgaaccgt aggaataaac cacaaaacgt caagatacag aagaagccag 660  
 ggaagtcaga gcttcgaatc aacaaagcgt ccctggctga ctctggagaa tatatgtgca 720  
 aagtgatcag caagttagga aacgacagtg cctctgccaa catcaccatt gttgagtcaa 780  
 acgacctcac cactggcatg tcagcctcaa ctgaaagacc ttatgtgtcc tcagagtctc 840  
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 gaggcgagtg ctctcatggtg aaggacctgt caaacccctc aagatacttg tgcaagtaag 1020  
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 gaattgattt tacttttcaa ggttttaggg tgtttttggt tcttgatggg ttgagtattt 1260  
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 gaagtgtgca aatattgtag aaagctgtca ctttgaatcc ctactttttt atcccatgta 1440  
 ttaattgagc cataaggtac ataaggtaac ttttttttaa cctcagtgct tacctgcaag 1500  
 gtgaacagga caaatagagg ttgcaagaga gcagaaagtt acctgctaaa gcattttctta 1560

tgctctggat tatggtattg ccccataatt agttttcaag acaaatttta agttgccctt 1620  
tctagttact 1630

<210> 147  
<211> 366  
<212> DNA  
<213> Mus musculus

<400> 147  
ttcaaggcac tgctcgtcct tgctcgcact catttgccct tggatcatag gcgatggccc 60  
cagctcctag cctcctgcac taccataa tcgtctgtca cccttttgtt ttttgagag 120  
ctcacaactg gcatgtcagc ctcaactgaa agaccctatg tgtcctcaga gtctccatt 180  
agaatatcag tttcaacaga aggcgcaaat acttcttcat ccacatctac atccacgact 240  
gggacaagcc atctaataaa gtgtgcggag aaggagaaaa ctttctgtgt gaacggaggc 300  
gagtgttca tgggaagga cctgtcaaac ccctcaagat acttggtgcaa gtaagaaatg 360  
aattcc 366

<210> 148  
<211> 412  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (339)..(339)  
<223> n = undefined nucleotide

<400> 148  
caccggcccc aagttgaaga agatgaagag ccagacggga caggtgggtg agaagcaatc 60  
gctgaagtgt gaggcagcag cgataaatcc ccagccttcc taccgttggg tcaaggatgg 120  
caaggagctc aaccgcagcc gagacattcg catcaaataat ggcaacggca gaaagaactc 180  
acgactacag ttcaacaagg tgaagggtgga ggacgctggg gagtatgtct gcgaggccga 240  
gaacatcctg gggaaggaca ccgtacgagg ccggctttac gtcaacagcg tgacgaccac 300  
cctgtcatcc tggtcggggc acgccgggaa gtgcaacng acagccaagt cctattgcgt 360  
caatggaggc gtctgtctact acatcgaggg catcaaccag ctctcctgca ag 412

<210> 149  
<211> 350  
<212> DNA  
<213> Homo sapiens

<400> 149  
ggtcatcttc cagttttgac gtggggcatg aaggagatga ttcctggggc ctagggatag 60  
tctcagtgcg tactggcac atgtctctca taccctcagt gagcaccacc ctgtcatcct 120  
ggtcggggca cgcccgaag tgcaacgaga cagccaagtc ctattgcgtc aatggaggcg 180  
tctgtacta catcgagggc atcaaccagc tctcctgcaa gtaagtgacc agtaggggtg 240  
ggcatgggag caagaacagg gtaggagatg ctgggtcaga agtgaggggc tctagggaaa 300  
gagggttcca agccactgac aagagggtccc caagggtgt agacaggaag 350

<210> 150  
 <211> 629  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (554)..(554)  
 <223> n = undefined nucleotide

<220>  
 <221> misc\_feature  
 <222> (577)..(577)  
 <223> n = undefined nucleotide

<220>  
 <221> misc\_feature  
 <222> (594)..(594)  
 <223> n = undefined nucleotide

<400> 150  
 gggagtcaag agatggcagt acttggctga aggttggttag tgagagatca atataatcat 60  
 ctggtattat tttccttctg cctggaggac ttgctttaac atttcaagta gtgtgggtct 120  
 gctgctgacg aattcataca aattttatac gacgacatat tccacagagc gatccgagca 180  
 cttcaaacc tgccgagaca aggaccttgc atactgtctc aatgatggcg agtgctttgt 240  
 gatcgaaacc ctgaccggat cccataaaca ctgtcggtaa gccactgagg ccactgatgg 300  
 aaagggcagg cccgttgcaa ggcgtggggg tggaggggtgc tggcagcatc tggatatgtg 360  
 catatccggg atacacacag tcccaccgtt tgaatagcag aattgcgagt cttaatttgg 420  
 aaagggcaag gctgctgcct ctttaacagt ggaagaagac aaaatggaaa caaagtagtt 480  
 acggtttaag ttttacctga ccaagcaaac aaagatttac ttttagatct gcaaagttaa 540  
 tggaaataat tatntacaca ctttagaagc gtctgtntat gatgtggagc ttangcatat 600  
 atcctagtac tcagaaataa tctgttctt 629

<210> 151  
 <211> 595  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (205)..(205)  
 <223> n = undefined nucleotide

<400> 151  
 gtgtctgcgg tattcaaaaa cttttgaaac actgcatgtc caacaaaatt tattttttgt 60  
 gtgaatgtaa gtttttattg aggggtactgt ttttcaacc tactctcttg accaagaatg 120  
 aaactattta caaattaaga tgccaacaga tcacgaagag ccctgtgggtc ccagtcacaa 180  
 gtcgttttgc ctgaatgggg ggctntgtta tgtgatacct actattccca gcccattttg 240  
 taggaagtga actgatgctg gcttctcttt gtcttattcc aagttgggca tgagattttc 300  
 cctgcattag aaggttggtg agacctgaag cctgggaagg tgcgttgaaa actatacagg 360

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agctcgttgt gaagagggtt ttctcccagg ctccagcatc caaactaaaa gtaacctgtt 420
tgaagctttt gtggcattgg cggtcctagt aacacttattc attggagcct tctacttcct 480
ttgcaggaaa ggccactttc agagagccag ttcagtccag tatgatatac acctggtaga 540
gacgagcagt accagtgtccc accacagtca tgaacaacac tgaagaaacg tcaaa 595

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<210> 152
<211> 545
<212> DNA
<213> Homo sapiens

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```

<400> 152
taagaaataa aggattagat ttttaattct tttacctagt ggtgtttcat tttctgcctt 60
tgtaaaataa aaacaatgat ttggttcact ttgacgtttc ttcagtgttg ttcattgactg 120
tgggtgggcac tgggtactgct cgtctctacc aggttgatat catactggac tgaactggct 180
ctctgaaaagt ggcctttcct gcaaaggaag tagaaggctc caatgataag tgttactagg 240
accgccaatg ccacaaaagc ttcaaacagg ttacttttag tttggatgct ggagcctggg 300
agaaaaacct cttcacaacg agctcctgta tagttttcaa cgcaccttc caggcttcag 360
gtctcaacaa ctttctaatt cagggaaaat ctcatgcca acttgaata agacaaagag 420
aagccagcat cagttcactt cctacaaaat gggctgggaa tagtaggtat cacataacaa 480
agccccccat tcaggcaaaa cgacttgtga ctgggaccac agggctcttc gtgatctgtt 540
ggcat 545

```

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<210> 153
<211> 715
<212> DNA
<213> Homo sapiens

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```

<400> 153
gcctgagctg ggcagggggc ggaggcgggg gctcggctgt ctccggggct gccacgcaga 60
gcgggcttcg tggcgtggat gaagaaactg aggcacagag ggattaagta gcctgtctaa 120
gatcacacag ctagtaagga accaagattc aaacttgggc agtgtgattc agagacttta 180
aattcaacgc tgggtgcctca ctgcctcaca ctaaaagtga atcagaaaaa taaagaacca 240
gcatcaaatt tgaagtggcc acaaattcta ttaaagcaga agaaatagtg gtgaaccata 300
aaagataacc agtttcctct ctattctgca atttagagga aaaattttca tccaaggaca 360
gatcagggtg tggacctaga tgggaaaccc aaattataat caagagattt cttggtactg 420
tttttcaacc ctactctctt gaccaagaat gaaactattt acaaattaag atgccaacag 480
atcacgaaga gccctgtggt ccagtcaca agtcgttttg cctgaatggg gggctttggt 540
atgtgatacc tactattccc agcccatttt gtaggaagtg aactgatgct ggcttctctt 600
tgtcttattc caagttgggc atgagatttt ccctgcatta gaaggttgtt gagacctgaa 660
gcctgggaag gtgcgttgaa aactatacag gagctcgttg tgaagaggtt tttct 715

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<210> 154
<211> 669

```

<212> DNA  
<213> Mus musculus

<400> 154  
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tataaatttc tggtgaggtg ctgattttca accttaattc ttccatcaag aatgaaacta 120  
tttaaaaatt aagatgccaa caggtaattt cttatcacga gcagccctgt ggtcccaggc 180  
acaggtcatt ttgcctcaat ggggggattt gttatgtgat ccctactatc cccagcccat 240  
tctgtaggaa gtgaactggt gctggcttct ctttgtctta ttccaagttg ggtcatgaga 300  
ttttccctgc accctgggaa ggtgcattga aaattacacc ggagcacgct gcgaagaggt 360  
ttttctcca agctccagca tccaagcga aagtaatctg tcggcagctt tcgtggtgct 420  
ggcggtcctc ctactctta ccatcgcggc gctctgcttc ctgtgcaggg ccgagtggaa 480  
ctgaccctcc aggacatatg tgagatgcta aaaggaagac taaagaagtga gaaggccac 540  
cttcagaggg ccagttcagt ccaatgtgag atcagcctgg tggaacaaa caataccaga 600  
acccgtcaca gccacagaaa aactggaaa catacatccc cagggaaggg catcattacc 660  
tacaaggg 669

<210> 155  
<211> 614  
<212> DNA  
<213> Mus musculus

<400> 155  
gagtgttcaa acacttgatg aacgctgcat gtctagcaaa attttctttt tttatgggaa 60  
tataaatttc tggtgaggtg ctgattttca accttaattc ttccatcaag aatgaaacta 120  
tttaaaaatt aagatgccaa caggtaattt cttatcacga gcagccctgt ggtcccaggc 180  
acaggtcatt ttgcctcaat ggggggattt gttatgtgat ccctactatc cccagcccat 240  
tctgtaggaa gtgaactggt gctggcttct ctttgtctta ttccaagttg ggtcatgaga 300  
ttttccctgc accctgggaa ggtgcattga aaattacacc ggagcacgct gcgaagaggt 360  
ttttctcca agctccagca tccaagcga aagtaatctg tcggcagctt tcgtggtgct 420  
ggcggtcctc ctactctta ccatcgcggc gctctgcttc ctgtgcagga agggccacct 480  
tcagagggcc agttcagtc agtgtgagat cagcctggta gagacaaaca ataccagaac 540  
ccgtcacagc cacagagaac actgaagaca tacatcccca gtgaagggca tcattaccta 600  
caaaggcgga ctgg 614

<210> 156  
<211> 513  
<212> DNA  
<213> Homo sapiens

<400> 156  
ttaagaaata aaggattaga tttttaattc ttttacctag tggtgtttca ttttctgcct 60  
ttgtaaaata aaaacaatga tttggttcac ttgacgttt cttcagtggt gttcatgact 120  
gtggtgggca ctggtactgc tcgtctctac caggttgata tcatactgga ctgaactggc 180

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tctctgaaag tggcctttcc tgcaaaggaa gtagaaggct ccaatgataa gtgttactag      240
gaccgcccacat gccacaaaag cttcaaacag gttactttta gtttggatgc tggagcctgg      300
gagaaaaaacc tcttcacaac gagctcctgt atagttttca acgcaccttc ccaggcttca      360
ggtctcaaca accttctaata gcagggaaaa tctcatgccc aacttggaat aagacaaaga      420
gaagccagca tcagttcact tcctacaaaa tgggctggga atagtaggta tcacataaca      480
aagcccccca ttcaggcaaa acgacttggtg act                                  513

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```

<210> 157
<211> 243
<212> DNA
<213> Sus scrofa

```

```

<400> 157
aagagcccctg tgggtcccagt cacaggtcat tttgcctgaa tggaggggatt tgttatgtga      60
tacctactat tcccagcccc ttttgtagga agtgaactga tgctggcttc tctttgtctt      120
attccaagtt ggggcatgag attttgcttg cattagaagg ttgttgagac ctgaagcctg      180
gtaaggtcat gcagaacatt gaagaaatac catagtgaac tcaaaatcgt tgcttctttg      240
tta                                  243

```

```

<210> 158
<211> 300
<212> DNA
<213> Sus scrofa

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```

<220>
<221> misc_feature
<222> (111)..(275)
<223> n = undefined nucleotide

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<400> 158
aagagcccctg tgggtcccagt cacaggtcat tttgcctgaa tggaggggatt tgttatgtga      60
tacctactat tcccagcccc ttttgtagga agtgaactga tgctggcttt ncnttggcct      120
aatnccagnt tgggcatgag atttgcctgc attagaangg tgttgaganc tgaagcctgg      180
taaaggcatg cagaacattg aagaatacnt agtgaactcc aaatcgggtgc ttccttggtg      240
caaaaggcgn aatgnagccc atacggtaaa gatcnatgag ttaatcctcc ttggcccca      300

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```

<210> 159
<211> 2360
<212> DNA
<213> Mus musculus

```

```

<400> 159
ttgtttgttg ttgcatacac caggctgctg gacactgaac ttctggcaat tctcttgtct      60
ctgaccccat ctcttggtag aggtgcactg gactacagac atgtgcccta ctgactggc      120
tatttatgtg gatttgaact cagggtcatca ggctgtgggg cgagtgcctt accctctgaa      180
ctatcttccc agcccctggt gttggcttgt gtctcatgtg ttagggaggt tcagtgcctt      240
catggcactt ggcagtgcct tgtgaggcac cagagagttg gaggccacca tgggtgtgaca      300
tgaccctttg catgtccttc cagctatttc tcaggctgga taaaagtgc cagggtgcatg      360

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gaaacttcat tatagagggt caggtaccca ggtcaatggt ttcctcagga actctaagta 420  
 gaaaactaaa ctctagtcag ttgtctatta aaaacagatc ccagctcaag cgtccccggga 480  
 ctctttttgt accctggaca tctggttgac agttctcatc cttcaacttg ctacagccctc 540  
 tgggtctcag atcagtagcc agccacatag aagcaaacac tcttttaatc ggggtacttg 600  
 ccacccccctt cctcccctaa gacgagggga atactcacac acatgctggc ttctcttctt 660  
 gcaccaaaaa ccggcagggt ccatggaagc agtactgagt gtgggaatct gggcacttgt 720  
 tgaagtgaga caccactgca gccgccacgg gtgagtctgc tggggcaaag agacatcatc 780  
 agacctggca cagctcacac ccaggaggaa tttctgcctt cacctgatgc cttctgcaaa 840  
 actcacgtcc taatgcccag ccagggtctca gagttttcat taagcagtct gtatatTTTT 900  
 ctaagataac aaaataattt ctccaaaggc tttggtataa ttcaaagata gctagttaga 960  
 ttcatTTtgca aaatggcaca cacctgaaat cccagcactc agaaggtaga ggcacaagga 1020  
 tcaggagttc gagggccaacc tagtccatat gtggagtttg aggtcagttg gatctcatta 1080  
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 gatgaggacc tgagcttgga ctccagcacc cacataaaga gacatcacag taaggattgc 1200  
 aactccagca ttctagttcc tggggaacca ctatactgct gaaggcagag ctctatgcct 1260  
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 aagctgggggt ccacaccatg aagaaactcc acatgacacc caaaggtttg tctctctgtc 1500  
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 tctaaaaatc aagggtgaat cacattgcaa ccaggaaact gcccttgctt gggactcagg 2160  
 ggcagctgcc aaagcacaga actggtaagt ttacgaggag actccaagtt cccgatattc 2220  
 tcccccaaga ttggacctt caactctttt tctcttttta ttcttttaaa ttaaaagatg 2280  
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 ggacaagcat tactgcatct 2360

<210> 160  
 <211> 180  
 <212> DNA  
 <213> Homo sapiens

<400> 160  
 gatctgagcc ctgcatcttt cctctcccca gcagaccgc ccgtggctgc agcagtggcg 60  
 tcccatttta atgactgccc agattccac actcagttct gcttccatgg aacctgcagg 120  
 tttttggctgc aggaggacaa gccagcatgt gtgtaagtat cccctgttct cctggagatc 180

<210> 161  
 <211> 129  
 <212> DNA  
 <213> Homo sapiens

<400> 161  
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 acatgaatgg ctattgtttg catggacagt gcatctatct ggtggacatg agtcaaaact 120  
 actgcaggt 129

<210> 162  
 <211> 120  
 <212> DNA  
 <213> Homo sapiens

<400> 162  
 cagacagaag acaatccacg tgtggctcaa gtgtcaataa caaagtgtag ctctgacatg 60  
 aatggctatt gtttgcattg acagtgcac tatctggtgg acatgagtca aaactactgc 120

<210> 163  
 <211> 129  
 <212> DNA  
 <213> Mus musculus

<400> 163  
 tagttcagat ggaagacgat ccccggtggt ctcaagtgtc gattacaaag tgtagttctg 60  
 acatggacgg ctactgcttg catggccagt gcatctacct ggtggacatg agagagaaat 120  
 tctgcagat 129

<210> 164  
 <211> 1299  
 <212> DNA  
 <213> Homo sapiens

<400> 164  
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 cccgtctgct cccgccctgc ccgtgcactc tccgcagccg ccctccgcca agccccagcg 120  
 cccgctccca tcgccgatga ccgcggggag gaggatggag atgctctgtg ccggcagggt 180  
 ccctgcgctg ctgctctgcc tgggtttcca tcttctacag gcagtcctca gtacaactgt 240  
 gattccatca tgtatcccag gagagtccag tgataactgc acagcttttag ttcagacaga 300  
 agacaatcca cgtgtggctc aagtgtcaat aacaaagtgt agctctgaca tgaatggcta 360  
 ttgtttgcat ggacagtgc tctatctggt ggacatgagt caaaactact gcaggtaata 420

tgtcagaaat aaacaaacac agtttgtaaa attttgtttt atagatttag ggggtacaagt 480  
gcagatttgc tagtggatat attcagtagt ggtgaagtct gagcttttag agtacctacc 540  
cctcaaatag tgtgcatgga acccattagg taatttttca tcccttaacc ccccaaaac 600  
tcttctacct tttgaagtct ccagagtcta ttactccact ctctatgaca atgtgtacac 660  
attatttagc tcccacttgt gagaacatgt gataaacaac tgcagtttta ctctttgtat 720  
ttctattttt ataatttgaa attaccctat atttccatgg gctgttaaata gcagtatata 780  
tattattaga aacttttctg agttttttaa aattaggtag taaatagtag cttttaaatt 840  
gcacacatat gtcagaggtg cagagcaggg aggacttctg atgcttctca cacttgccaa 900  
gatggtgtct ctctgcttgg gatcttttcc ttcaatttct atatcaggta ttgttttaag 960  
aattgattcc aggccggacg cgttggtctca tgcctgtaata cccagcactt tgggaggccg 1020  
aggcgggagg atcacggggt caggagatca agaccatcct ggcaaacacg gtgaaacccc 1080  
gtcttacta aaaatacaaa aaaaaaaaaa attagccagg ggtagtggcg gacgcctgaa 1140  
gtcccagcta ctggggaggc tgaggcagga gaatggcatg aaccgggggg gtggagcttg 1200  
cagtggcgg agatcatgcc actgtactcc agcctgggca acacagcgag actccgtctc 1260  
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1299

<210> 165  
<211> 1215  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (554)..(839)  
<223> n = undefined nucleotide

<400> 165  
taatacgaag acacagccaa cgtgggggtcc tttctcggtc gacagccgct ctccagccac 60  
tgccgcgagc ccgtctgctc ccgccctgcc cgtgcactct ccgcagccgc cctccgccaa 120  
gccccagcgc ccgctcccat cgccgatgac cgcggggagg aggatggaga tgctctgtgc 180  
cggcagggtc cctgcgctgc tgctctgcct gggtttccat cttctacagg cagtcctcag 240  
tacaactgtg attccatcat gtatcccagg agagtccagt gataactgca cagcttttagt 300  
tcagacagaa gacaatccac gtgtggctca agtgtcaata acaaagtgtg gctctgacat 360  
gaatggctat tgtttgcatg gacagtgcac ctatctgggtg gacatgagtc aaaactactg 420  
caggtaatat gtcagaaata aacaaacaca gtttgtaaaa ttttgtttta tagatttagg 480  
gggtacaagtg cagatttgct agtggatata ttcagtagtg gtgaagactg ctattactcc 540  
atgtgcttcc cgcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600  
nnnnnnnnnn nnnnnnggnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780  
nnnnnccnnn nnnnnnnnnn nngnnnnngn nnnnnngnnn nnnnnnnnnn gttnttttng 840

```

aaactttttt tttgagggtt ttataaaaaat taggggtagt aaaaataggg aggttttttta 900
aaatttgccc caccattatg tccaaaagtg gccacaagtc aggaaaggaa ctttttgagg 960
ggctttttct ccccttttgc ccccggaagg ggggtcctcc tccgggcctt gggaatcttt 1020
tttcccttac attttccaaa attccgggga ttttgttttt taaaaaatg gagatttccc 1080
cgcgccccgg acgccgtatg gggcttcatg gccctggaaa cccacccca ctcttttgtg 1140
gggggtcccg aggcaggggg gggggaattc cgcgggggcc ccggggaaat taaaaacacc 1200
ctccccctgg ggca 1215

```

```

<210> 166
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (355)..(355)
<223> n = undefined nucleotide

```

```

<400> 166
atcccgggga gaaagccacc cggcccaagt tgaagaagat gaagagccag acgggacagg 60
tggttgagaa gcaatcgctg aagtgtgagg cagcagcggg taatccccag ctttctacc 120
gttggttcaa ggatggcaag gagtcaacc gcagccgaga cattcgcatc aaatatggca 180
acggcagaaa gaactcacga ctacagttca acaaggtgaa ggtggaggac gctggggagt 240
atgtctgca ggccgagaa atcctgggga aggacaccgt cggaggccgg ctttacgtca 300
acagcgtgac gaccaccctg tcaccttgtt cggggcacgc ccggaagtgc aacngacag 360
ccaagtccta ttgctgaat ggaggcgtct gctactacat cgagggcatc aaccagctct 420
cctgcaaggc acctgggctg cactgcttag aacttggtac ccagagccac cacttccca 480
tctcagctc ccctgggttc agccaagggt cctggaacca acttcccaa cacccttgt 540
cagccctcg 549

```

```

<210> 167
<211> 362
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (323)..(323)
<223> n = undefined nucleotide

```

```

<400> 167
agcacagctc tgaggacctg gtgttctgac cgcattctca ccagggtgct ccttcccccc 60
gagggtgac aaagggtgtt ggggaagttg gttccaggaa ctttggttg aaccagggga 120
ggctgagatg ggggaagtgtt ggctctgggt accaagttct aagcagtgc gcccatgtgc 180
cttgaggag agctggttga tgccctcgat gtagtagcag acgcctccat tgacgcaata 240
ggacttggt gtctcgttgc acttccgggc gtgccccgac caggatgaca ggggtggtgct 300

```

cacgctgttg acgtaaagcc ggncccggac ggtgtccttc cccaggatgt tctcggcctc 360  
gc 362

<210> 168  
<211> 458  
<212> DNA  
<213> Mus musculus

<400> 168  
gtgtgaggca gcggcgggaa acccccagcc ctctatcgc tggttcaagg atggcaagga 60  
actcaaccgg agtcgtgata ttcgcatcaa gtatggcaat ggcagtgagc accactctgt 120  
catcctggtc gggacatgcc cggaagtgc atgagaccgc caagtcctac tgtgtgaatg 180  
gaggcgtgtg ctactacatc gagggcatca accagctctc ctgcaaaggc tgaggagctg 240  
taccagaaga gagtgtgac aattactggt atctgtgtgg ccctgctggt cgtgggcatc 300  
gtctgtgtgg tcgctactg caagaccaa aaacagagga ggcagatgca tcatcatctc 360  
cggcagaaca tgtgcccagc ccaccagaac cgaagcctgg ccaacgggcc agccaccctc 420  
ggctggacca tgaggagacc agatggcaga ttaatctc 458

<210> 169  
<211> 539  
<212> DNA  
<213> Danio rerio

<400> 169  
ccaccagcag agccacgcag atgccagtta tcgtcagcac tcgttttggt acagctcctc 60  
agccttgtag aaaccggcca taacggaggt ttgacagcgt tcgccggtat agtcatttg 120  
acacttgtag gacagctgat ttataccatg tatgaaataa cagtctccac cgttgatgca 180  
gtatgtcttc tcagtttcat tgcacttcct ggcagtactt gagcccggag acaatgtggt 240  
ggttatgctt tggacgctga cgaagctggt ggcgttttct ctgcccagcg agttctccac 300  
cacacaggtg tagttcccag aatcctccag tctgactttg ctaatgtgaa gctttgagtt 360  
tttcttggtg gttttgattt tgacggtttt cttttggcga agctggctgc catctttgta 420  
ccagttgaag gaggggctcg ggttgccac agcttcacac ttcagtgtca actttttacc 480  
ttcctggagc cactgagaat ccatgggctt cacctttgga gctgatgcgc agtctttac 539

<210> 170  
<211> 654  
<212> DNA  
<213> Gallus gallus

<400> 170  
cacgctggga gatgagtgt gtggtgcccc gctgtgaggt gcctgggctg gcagtgtctc 60  
tccctctctc cctctgcagg ggaaagaaag aagggaactt ttctttctct gaagtagaag 120  
ttcagatttt gatggtaagg gagctgatgt ggaggcctgg ccttaaggaa ggctttcagt 180  
aggcagtaca gtctttggag ctgctgcagc agacctggcg gttgtctacc ttgcaatttg 240  
agtatgacag aagagtagcc tgtggattcc actatactac aacgtattcc actgagcgat 300

```

ctgagcactt taagccatgc aaagacaagg atcttgcata ctgtctcaac gagggggaat 360
gctttgtgat tgaaacctta acaggatcac ataaacactg cgcagcaat tgcccttctg 420
gtgttttctg ctggtgacct gtctgaatag atgttcttcc agagggtggtt gtggtttggg 480
gcattgatgc tgggaagagg attaccagga agagctcagc tgttccttca ttgctcagtc 540
cacgtttata aagaaggatg gacagtgacc tgtgagcaag cttgtttgca aaagaaagca 600
ttatctgttg gtaacttttg caataaaaaa tatttcttgt attactctaa aaaa 654

```

```

<210> 171
<211> 758
<212> DNA
<213> Gallus gallus

```

```

<220>
<221> misc_feature
<222> (4)..(4)
<223> n = undefined nucleotide

```

```

<400> 171
gcanggcggg aggcgccgcg cggtcgctgt ccgcgggcag acagcggcat tacataaccg 60
cgtacagaga gcagctgcgg gattacacga tgcagattag cggcggcggtt gattcagcag 120
atgccctgtg cgtgtgtgag ggggattacg gcggcgcggg gcagaaccgc cgtgcgggtg 180
ccgtttttaga agaatagctt ctgaccaaga attagaattg ttggaataat atgcgaacag 240
atcatgaaga actctgtggc accagttatg gatctttttg tctaaatgga ggcatttgct 300
atatgattcc tactgtaccc agtccattct gcagacatct tccgaaagca gcaaaccaag 360
cttcagcctt acataagtca gtcttctcta tcttcgtttt acatacagac accactgcac 420
tcccaagctg ccatttaatg cctgctcatt tctatacgca atgaaagata actagaaaat 480
ccgtatttca aggctatcct ccatttctac atccctgcaa actacctaag aacaattaga 540
tggaacagga ttgtctacaa cattgttatc acaaaggagg ctatcttatg gatggaattt 600
cttttttctc agatgtatta ctaccagca aggaaggtag ttctgtttga atcttctcaa 660
taaacaccac atttcctgtt tcagggtggg tgggaactat tcttcaaacg gaggagggtt 720
atgtgttcct ttcgttccta taatgtctca ataatgag 758

```

```

<210> 172
<211> 547
<212> DNA
<213> Mus musculus

```

```

<400> 172
gttgctgaag tcctcagtgt tcaaacactt gtgaaacgct gcatgtctag caaaattttc 60
tttttttatg ggaatataaa tttctgttga ggtgctgatt ttcaacctta attcttccat 120
caagaatgaa actattttaa aattaagatg ccaacagatc acgagcagcc ctgtggtccc 180
aggcacaggt cttttgcct caatgggggg atttgtattg atccctacta tccccacca 240
ttctgtaggt tttatcattt gtttctaaga cattgcctac ttaaaccatt cgtgcaattg 300
ggcaccttgg tgtaccagt gtttctgaag gagttattcc attgacgcgc cccaagttct 360

```

```

tcatgcagtg gtgttcctga atgcttgaaa tctgttttct gcgaatcctt ggtgggatgg      420
ctagaaacct gtgaaaaatc atgaaatcac caaataccat gtgatgtgta tagtctcttc      480
tcctctccac tgacagctta atcaggggaa agggactggt gctgcttctc tttgtcttat      540
tcccagt                                           547

```

```

<210> 173
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 173
cggatgtatc ccaacaccgt cacggaaata ttctgctgac attgcatggt actgcttcca      60
ggtgctctat atatttgcac tctccgtgaa tgcagaaatt ttgaaattct gcatcacatg      120
gatttttctt ctttctgttt cttctatttt ttccattttt gcctcccttt ttctttcttt      180
tgggtttatc tgaagtattt tcactttccg gcttggtgtg ggcgataaca tca           233

```

```

<210> 174
<211> 533
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (7)..(7)
<223> n = undefined nucleotide

```

```

<400> 174
ccctagntgc caccacacaa tcaaagtgga aaggccactc ctctaggtgc cccaagcaat      60
acaagcatta ctgcatcaaa gggagatgcc gcttcgtggt ggccgagcag acgccctcct      120
gtgtccctct ccggaaacgt cgtaaaagaa agaagaaaga agaagaaatg gaaactctgg      180
gtaaagatat gactcctatc aatgaagata ttgaagagac aaatattgct tataaggcta      240
tgaagttacc tccaggttgg tggcaagctg caaagtgcct tgctcatttg aaaatggaca      300
gaatgcgtct caggaaaaca gctagtagac atgaatttta aataatgtat ttacttttta      360
tttgcaactt cagtttgtgt tattattttt taataagaac attaattata tgtatattgt      420
ctagtaattg ggaaaaaagc aactggttag gtagcaacaa cagaagggaa atttcaataa      480
cctttcactt aagtattgtc accaggatta ctagtcaaac aaaaaaaaaa aaa           533

```

```

<210> 175
<211> 689
<212> DNA
<213> Mus musculus

```

```

<220>
<221> misc_feature
<222> (671)..(671)
<223> n = any nucleotide

```

```

<400> 175
gcagattatt tgtttaccac ttagaacaca ggatgtcagc gccatcttgt aacgacgaat      60
gtgggggcg cgctccaacac ttcaccatgg ttttgacctt gtcatgacca gttattttct      120

```

```

ggcttatctc cactaatctt gggagcctca gcaccagccc tgagtccata tcacaccacc 180
aaagtctttg acctggaaga gctttaactt cctaagcctc ctgcttccac tgggcagcac 240
tggtacccgg agaatcctgt gtcccttgte tactccatcc tgttctgcag gtcttgcaat 300
tctccactgt gtggtagcag atgggaacac aaccagaaca ccagaaacca atggctctct 360
ttgtggagct cctggggaaa actgcacagg taccaccctt agacagaaag tgaanaacca 420
cttctctcgg tgccccaagc agtacaagca ttactgcate catgggagat gccgcttcgt 480
gggtggacgag caaactccct cctgcatggc ccggctcagc atctacttgt ggagaaaactg 540
acgcagactt tcctcctgaa atctgaatat gagaaaccag gtccagttct gccctgctgg 600
tgtcccaact cccttggtgca agaaaaggcg attctaatacg tgttaggatg ctcgatagtt 660
ccaatcatct nctgggtgtt tcaatgaaa 689

```

&lt;210&gt; 176

&lt;211&gt; 1196

&lt;212&gt; DNA

&lt;213&gt; Cercopithecus aethiops (African green monkey)

&lt;400&gt; 176

```

gccagcgga atctcttgag tcccaccgcc cagctccggt gccagcgccc agtggccgcc 60
gcttcgaaag tgactgggtgc ctgcgccct cctctcggtg cgggaccatg aagctgctgc 120
cgctcgggtg gctgaagctc cttctggctg cagttctttc ggactgggtg actggcgaga 180
gcctggagca gcttcggaga gggccagctg ctggaaccag caaccggac cttccactg 240
gatctacgga ccagctgcta cgcctaggag gcggccggga ccggaagtc cgtgacttgc 300
aagaggcaga tctggacctt ttgagagtca ctttatctc caagccacaa gcactggcca 360
caccaagcaa ggaggagcac gggaaaagaa agaagaaagg caagggacta gggagaaga 420
gggacccatg tcttcggaaa tacaaggact tctgcatcca cggagaatgc aaatatgtga 480
aggagctccg ggctccctcc tgcatggcag ctgggcagaa agatgttact tgatttgttt 540
ggtttgtcct gtgatgaaag aggcctggta gctcagcgtt cagaggccaa aggccagagc 600
tgccaccag gttaccatgg agagaggtgt catgggctga gcctcccagt ggaaaatcgc 660
ttatatacct atgaccatac aactatcctg gctgtgggtg ccgtgggtgct gtcctctgtc 720
tgtctgctgg tcatcgtggg gcttctcatg tttaggtacc ataggagagg tggttatgat 780
gtggaaaacg aagagaaagt gaagttgggc atgactaatt cccactgaga gacttggtgc 840
caaggaatca gctgggtgact gctacctctg agaagacaca aggtgatttc agattgcaga 900
ggggaaagac gtcacatcta gccacaaaga ctcttctatc cccagtcgcc atctaggatt 960
gggcctccca taattgcttt gccaaaatac cagagccttc aagtgccaaa ccgagtatgt 1020
ctgatagtat ctgggtgaga agaaagcaaa agcaaggagc cttcatgccc ttctgattcc 1080
cctccaccaa gcccacttc cccttataag tttgtttaag cactcacttc tggattagaa 1140
tgccggttaa attccatatg ctccaggatc tttgactgaa aaaaaaaaaa aaaaaa 1196

```

&lt;210&gt; 177



<211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 177  
 acgggggtccg agaaagttaa gcaactacag gaaatggctt tgggagttcc aatatcagtc 60  
 tatcttttat tcaacgcaat gacagcactg accgaagagg cagccgtgac tgtaacacct 120  
 ccaatcacag cccagcaagc tgacaacata gaaggaccca tagccttgaa gttctcacac 180  
 ctttgcctgg aagatcataa cagttactgc atcaacggtg cttgtgcatt ccaccatgag 240  
 ctagagaaaag ccatctgcag gtgtctaaaa ttgaaatcgc cttacaatgt ctgttctgga 300  
 gaaagacgac cactgtgagg cttttgtgaa gaattttcat caaggcatct gtagagatca 360  
 agtgagccca aaattaaagt ttccagatga aacaacaaaa cttgtcaagc tgactagact 420  
 cgaaaatatg gaaagttggg gatcacatg aaatgagaag ataaaatcag cgggtggcctt 480  
 tagactttgc catccttaag gagtgatgga agccaagtga acaagcctca gtgacacaag 540  
 tcaaattcat aggttcactc tggg 564

<210> 178  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
 ggcacgaggg aggcctctttg ttatagatgc ttttgcccc ttaatacagc aatgagagca 60  
 ctgaccgaag aggcagccgt gactgtaaca cctccaatca cagcccagca agctgacaac 120  
 atagaaggac ccatagcctt gaagttctca cacctttgcc tggaagatca taacagttac 180  
 tgcatacaag gtgcttgtgc attccaccat gagctagaga aagccatctg cagggtgtcta 240  
 aaattgaaat cgccttacaa tgtctgttct ggagaaagac gaccactgtg aggcctttgt 300  
 gaagaatttt catcaaggca tctgtagaga tcagttagcc caaaattaaa gttttcagat 360  
 gaaacaacaa aacttgtcaa gctgact 387

<210> 179  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<400> 179  
 ggcacgagga aagttaagca tctacagggt atggctttgg gagttccaat atcagtctat 60  
 cttttattca acgcaatgac agcactgacc gaagaggcag ccgtgactgt aacacctcca 120  
 atcacagccc agcaaggtaa ctggacagtt aacaaaacag aagctgacaa catagaagga 180  
 cccatagcct tgaagttctc acacctttgc ctggaagatc ataacagtta ctgcatcaac 240  
 ggtgcttgtg cattccacca tgagctagag aaagccatct gcagggtgtct aaaattgaaa 300  
 tcgccttaca atgtctgttc tggagaaaga cgaccactgt gaagcctttg tgaagaattt 360  
 tcatcaaggc atctgtagag atcagttag 389

<210> 180  
 <211> 409

<212> DNA  
<213> Homo sapiens

<400> 180  
aactacagga aatggctttg ggagttccaa tatcagtcta tcttttattc aacgcaatga 60  
cagcactgac cgaagaggca gccgtgactg taacacctcc aatcacagcc cagcaagctg 120  
acaacataga aggacccata gccttgaagt tctcacacct ttgcctggaa gatcataaca 180  
gttactgcat caacggtgct tgtgcattcc accatgagct agagaaagcc atctgcaggt 240  
gtctaaaatt gaaatcgctt tacaatgtct gttctggaga aagacgacca ctgtgaggcc 300  
tttgtgaaga attttcatca aggcatcttg tagagatcaa gtgagcccaa aattaaagtt 360  
ttcagatgaa acaacaaaac ttgtcaagct gactagactc gaaaatatg 409

<210> 181  
<211> 568  
<212> DNA  
<213> Homo sapiens

<400> 181  
ccgtcagtct agaaggataa gagaaagaaa gttaagcaac tacaggaaat ggctttggga 60  
gttccaatat cagtctatct tttattcaac gcaatgacag cactgaccga agaggcagcc 120  
gtgactgtaa cacctccaat cacagcccag caaggtaact ggacagttaa caaacagaa 180  
gctgacaaca tagaaggacc catagccttg aagttctcac acctttgcct ggaagatcat 240  
aacagttact gcatcaacgg tgcttgtgca ttccaccatg agctagagaa agccatctgc 300  
aggtgtctaa aattgaaatc gccttacaat gtctgttctg gagaaagacg accactgtga 360  
ggcctttgtg aagaattttc atcaaggcat ctgtagagat cagttagccc aaaattaaag 420  
ttttcagatg aaacaacaaa acttgtcaag ctgactagac tcgaaaataa tgaaagttgg 480  
gatcacaatg aaatgagaag ataaaattca gcgttggcct ttagactttg ccataccttaa 540  
ggagtgatgg aagccaagtg aacaagcc 568

<210> 182  
<211> 282  
<212> DNA  
<213> Homo sapiens

<400> 182  
atggctttgg gagttccaat atcagtctat cttttattca acgcaatgac agcactgacc 60  
gaagaggcag ccgtgactgt aacacctcca atcacagccc agcaagctga caacatagaa 120  
ggacccatag ccttgaagtt ctcacacctt tgcctggaag atcataacag ttactgcatc 180  
aacggtgctt gtgcattcca ccatgagcta gagaaagcca tctgcaggtg tctaaaattg 240  
aaatcgctt acaatgtctg ttctggagaa agacgaccac tg 282

<210> 183  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 183

Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His  
 1 5 10 15

Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Lys  
 20 25 30

<210> 184  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 184

Gly His Ala Arg Lys Cys Asn Glu Thr Ala Lys Ser Tyr Cys Val Asn  
 1 5 10 15

Gly Gly Val Cys Tyr Tyr Ile Glu Gly Ile Asn Gln Leu Ser Cys Lys  
 20 25 30

<210> 185  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 185

Asn Ser Tyr Pro Gly Cys Pro Ser Ser Tyr Asp Gly Tyr Cys Leu Asn  
 1 5 10 15

Gly Gly Val Cys Met His Ile Glu Ser Leu Asp Ser Tyr Thr Cys Lys  
 20 25 30